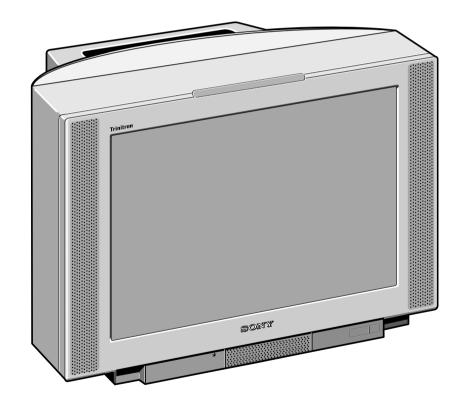


# **SERVICE MANUAL**

AE-5 CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	СОММ	ANDER	DEST	CHASSIS NO.	
KV-29FX60 KV-29FX60 KV-29FX60	<b>B</b> RM-891	Italian French AEP		KV-29FX60 KV-29FX60		RM-891 RM-891	Spanish UK	SCC-Q14A-A SCC-Q15A-A	









ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
Italian	B/G/H,D/K	GERMAN Stereo	ITALIA VHF: A-H2 (C) UHF: 21-69 PAL B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05,M1-M10,U1-U10 DK VHF: R01-R12 UHF: R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
French	B/G/H, D/K,L,I	GERMAN/NICAM Stereo	L VHF: F02-F10 UHF: F21-F60 CABLE: B-Q B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H2 (C) UHF: 21-69 I UHF: B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
AEP	B/G/H, D/K	GERMAN Stereo	PAL B/G/H/ VHF: E2-E12: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H2 (C) UHF: 21-69 D/K VHF: R01-R12 UHF: R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Spanish	B/G/H, D/K	GERMAN/NICAM Stereo	PAL B/G/H/ VHF: E2-E12: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H2 (C) UHF: 21-69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
ик	I	NICAM Stereo	UHF : B21-B69	PAL NTSC4.43, NTSC3.58 (VIDEO IN)

MODEL	29FX60A	29FX60B	29FX60D	29FX60E	29FX60U
Power Consumption	130W	130W	130W	130W	130W

[PICTURE TUBE] Super Trinitron

Approx. 72 cm (29 inches) (Approx. 68 cm picture measured

diagonally)

110 degree deflection

[FRONT]

Video output - phono jack Audio inputs - phono jacks S Video input - 4 pin din

Headphone jack: stereo minijack

### **Input/Output Terminals**

### [REAR]

21-pin Euro connector (CENELEC standard).

- Inputs for Audio and Video signals.

- Inputs for RGB.

Outputs of TV Video and Audio signals.

21-pin Euro connector

Inputs for Audio and Video signals.

- Inputs for S video.

Outputs forVideo and Audio signals (selectable).

21-pin Euro connector

Inputs for Audio and Video signals.

Inputs for S video.

Phono Jack

- Outputs for Audio Signals

External speaker terminals: 2-pin Din

Sound output 2x25W (Music Power)
Subwoofer 25W (Music Power)
Power requirements 220 - 240V

Dimensions Approx 738x588x507mm

Weight Approx 52kg

Supplied accessories RM-891 Remote Commander (1)
IEC designated R6 battery (2)
Other features NICAM\* FASTEXT, TOPTEXT

\* (KV-29FX60B/29FX60E/29FX60U only)

[RM-891]

Power requirements 3V dc

2 batteries IEC designation

R6 (size AA)

Dimensions Approx 210x56x24mm (w/h/d)
Weight Approx 110g (Not including battery)

Design and specifications are subject to change without notice.

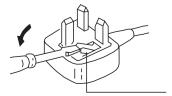
Model Name	KV-29FX60A	KV-29FX60B	KV-29FX60D	KV-29FX60E	KV-29FX60U
Pal Comb	OFF	OFF	OFF	OFF	OFF
PIP	ON	ON	ON	ON	ON
RGB Priority	ON	ON	ON	ON	ON
Woofer Box	ON	ON	ON	ON	ON
Scart 1	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON	ON
Front in (3)	ON	ON	ON	ON	ON
Scart 4	ON	ON	ON	ON	ON
Projector	OFF	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON	ON
Norm B/G	ON	ON	ON	ON	OFF
Norm I	OFF	ON	OFF	OFF	ON
Norm D/K	ON	ON	ON	ON	OFF
Norm AUS	OFF	OFF	OFF	OFF	OFF
Norm L	OFF	ON	OFF	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF	OFF
Teletext	ON	ON	ON	ON	ON
Nicam Stereo	OFF	ON	OFF	ON	ON
Language Preset	Italian	French	German	Spanish	English

### WARNING (KV-29FX60U only)

The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of **5 AMP** capacity. Should the fuse need to be replaced, use a **5 AMP FUSE** approved by **ASTA** to **BS 1362**, ie one that carries the mark.

IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR THE OUTLET SOCKETS IN YOUR HOME, IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE OUTLET SOCKET.

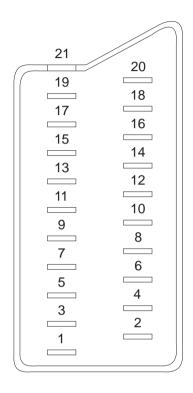
When an alternative type of plug is used it should be fitted with a **5 AMP FUSE**, otherwise the circuit should be protected by a **5 AMP FUSE** at the distribution board.



How to replace the fuse. Open the fuse compartment with a screwdriver blade and replace the fuse.

FUSE

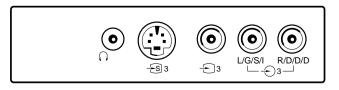
### 21 pin connector



Pin No	1	2	4	Signal	Signal level
1	0	0	0	Audio output B (right)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
2	0	0	0	Audio output B (right)	Standard level : 0.5V rms Output impedence : More than 10kohm*
3	0	0	0	Audio output A (left)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
4	0	0	0	Ground (audio)	
5	0	0	0	Ground (blue)	
6	0	0	0	Audio input A (left)	Standard level : 0.5V rms Output impedence : More than 10kohm*
7	0	•	•	Blue input	0.7 +/- 3dB, 75 ohms positive
8	0	0	0	Function select (AV control)	High state (9.5-12V): Part mode Low state (0-2V): TV mode Input impedence: More than 10K ohms Input capacitance: Less than 2nF
9	0	0	0	Ground (green)	
10	0	0	0	Open	
11	0	•	•	Green	Green signal : 0.7 +/- 3dB, 75 ohms, positive
12	0	0	0	Open	
13	0	0	0	Ground (red)	
14	0	0	0	Ground (blanking)	
45	0	-	-	Red input	0.7 +/- 3dB, 75 ohms, positive
15	-	0	0	(S signal Chroma input)	0.3 +/- 3dB, 75 ohms, positive
16	0	•	•	Blanking input (Ys signal)	High state (1-3V) Low state (0-0.4V) Input impedence : 75 ohms
17	0	0	0	Ground (video output)	
18	0	0	0	Ground (video input)	
19	0	0	0	Video output	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
-00	0	-	-	Video input	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
20	-	0	0	Video input Y (S signal)	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
21	0	0	0	Common ground (plug, shield)	

O Connected Not Connected (open) \* at 20Hz - 20kHz

Pin No.	Signal	Signal Level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75 ohm, positive Sync. 0.3V -3 + 10dB
4	C (S signal) input	0.3V ± 3dB 75 ohm, positive Sync.



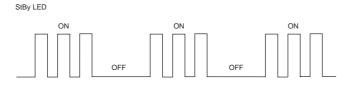
### **AE-5 SELF DIAGNOSTIC SOFTWARE**

The identification of errors within the AE-5 chassis is triggered in one of two ways:- 1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1., non fatal errors are reported using this method.

Diagnostic Item Description	No of times Standby LED Flashes	Probable cause Location	Detected Symptoms
Power does not turn on	Does not light	Power cord is not plugged in Fuse is burned out	Power does not come on No power is supplied to the TV AC power supply is faulty
+B Overcurrent (OCP)	2 times	H.OUT (Q6803/6804) is shorted. (D Board) Linearity FET (Q6806) is shorted. (D Board) IC6604 Power IC is shorted. (D Board)	Power does not come on  Load on power line has shorted
Vertical Deflection stopped	4 times	+15V is not supplied R6835 open (D Board) -15V is not supplied R6834 open (D Board) IC6700 is shorted (D Board)	Vertical deflection pulse has stopped Power line has shorted

ERROR	LED ERROR COUNT
No error	00
Not allowed (may be confused with Sircs response flash!)	01
Over Current Protection	02
Over Voltage Protection	03
Vertical Protection	04
AKB	05
H - Protection	06
Speaker Protection	07
General IIC Line 0 error	08
MEGATEXT	09
NVM	10
Main colour decoder	11
Feature Box	12
D/A converter	13
Backend	14
Multi sound processor	15
Auto Wide	16
External RAM	17

### Flash Timing Example: e.g. error number 3



### **ERROR DETECTION MONITOR**

Device acknowledge is used to check IIC errors. Device acknowledge is checked by sending an IIC start sequence during CRT power on. Each device is checked three times, if there is no acknowledge after every attempt, it will be regarded as an error. There are three steps to check errors

- 1. IIC line 0
  - If all devices except the NVM have errors, IIC line 0 error is displayed
- 2. Board check
  - If all devices mounted on one board have errors, board error is displayed
- 3. Each device check
  - If IIC line error and board error are not detected then the device with an error is displayed

The detected errors can be displayed as follows:

- 1. Error Monitor Menu
- 2. Error Reader

### 1. ERROR MONITOR MENU

The error monitor menu is displayed by selecting TT33. The following menu will be displayed:

# ERROR MONITOR Operating Time: 930360h 15h Saved Errors: 1. 100h = A-Board 2. 401h = BP-B CXD2069 MID 3. 704h = J-B TDA9320 Main Col Dec 4. 000h = no error occured 5. 000h = no error occured Actual Error: New error code sequence is starting Ignore Errors: [off]

### 2. ERROR READER DISPLAY

The error reader display is connected to the service connector to read actual error codes. The part number for the error reader display is S-188-900-10. Once an error has been detected it will then be displayed on the two digit error reader. The errors displayed refer to the following table:

	Send Data to Error Reader						
Error Code	Data high	Data Low	Error type	Function			
00 00h	-	f0h	no device				
Gen.IIC Error			1	1			
00 01h	f0h	01h	IIC 0 line				
00 02h	f0h	02h	IIC 1 line	not used			
Board Error				1			
01 00h	f1h	00h	A Board				
02 00h	f2h	00h	B1 Board				
03 00h	f3h	00h	B2 Board				
04 00h	f4h	00h	BP Board				
05 00h	f5h	00h	D1 Board				
06 00h	f6h	00h	E Board				
07 00h	f7h	00h	J Board				
Device Error			1	1			
A Board							
01 01h	f1h	01h	CXA1875	Port Expander			
01 02h	f1h	02h	TU1326	Main Tuner			
01 03h	f1h	03h	TU1350	Sub Tuner			
B1 Board							
02 01h	f2h	01h	P83C654	Feature Box			
02 02h	f2h	02h	SDA9280	D/A Converter			
B2 Board							
03 01h	f3h	01h	SAA4977	Basic			
03 02h	f3h	02h	SAA4950	Memory			
BP Board			1	1			
04 01h	f4h	01h	CXD2069	MID			
D1 Board							
05 01h	f5h	01h	CXA8070	Dynamic Conv.			
05 02h	f5h	02h	CXA1875	Port Expander			
E Board			1	1			
06 01h	f6h	01h	CXD2100	Backend			
J Board			1	1			
07 01h	f7h	01h	CXD2057	Auto Wide			
07 02h	f7h	02h	SDA9288	PIP			
07 03h	f7h	03h	TDA9320	Sub Colour			
07 04h	f7h	04h	TDA9320	Main Colour			
07 05h	f7h	05h	CXA1875	Sub Sound			
07 06h	f7h	06h	TDA7309	HP Amp			
07 07h	f7h	07h	TEA6422DT	Audio SW			
07 08h	f7h	08h	MSP3410D	Sound Proc			
07 09h	f7h	09h	TC9337F	Sound DSP			

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4.	CIRCUI	T ADJUSTMENTS				
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### **CAUTION**

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP

### WARNING!!

AN ISOLATING TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARKED  $\triangle$  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

### **ATTENTION**

APRES AVOIR DECONNECTE LE CAP DE'LANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

### ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÈ LORS DE TOUT DÈPANNAGE. LE CHÁSSIS DE CE RÈCEPTEUR EST DIRECTMENT RACCORDÈ Á L'ALIMENTATION SECTEUR.

### ATTENTION AUX COMPOSANTS RELATIFS Á LA SÈCURITÈ !!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE A SUR LES SCHÈMAS DE PRINCIPE, LES VUES EXPLOSÈES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITÈ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPSANTS SONY DONT LE NUMÈRO DE PIÈCE EST INDIQUÈ DANS LE PRÈSENT MANUEL OU DANS DES SUPPLÈMENTS PUBLIÈS PAR SONY.

### 9

# SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

### Overview

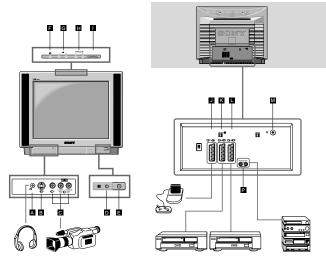
This section briefly describes the buttons and controls on the TV set and the Remote Control. Open the flaps at the front and back of his Instruction Manual for detailed illustrations. For more information refer to the page numbers given in the overview.

### **Remote Control**

Syr	nbol	Description	See page
0	TVI∕Ů	TV: standby mode on/off	32
0	<b>i</b> +	TV: on-screen display	
0	<del>9</del> 0	Selecting of input source Teletext: Freezing a subpage	
4	❸/❷	PIP: Swapping the screens	41
6	<b>†</b>	PIP: Selecting the source	41
6	<b>0</b> / <b>0</b>	PIP: Switching on and off	41
0	1, 2, 9, 0	Number buttons	32
8	$\Theta$	Back to the channel last selected	32
9	· <del> </del>	Selecting of screen format	32
0	<b>m</b>	No function on this set	
•		Joystick for menu selection	31
		Press OK to confirm	
ø	MENU	Switching on and off of Menu system	31
<b>®</b>	PROGR +/-	TV: Channel selection up- and downwards	
•	⊿+/-	Volume control	32
<b>(</b>	- <b>∆</b> i-	Picture mode	32
<b>1</b>	<u>.</u>	Equaliser mode	32
<b>1</b>	-/	Selection of double digit channel numbers	32
<b>1</b>	•	Freezing of TV picture	32
19		No function on this set	
@		Teletext: Switching on	42
4	0	TV: Selecting of TV mode	
@	□*	Muting of sound on/off	32
<b>®</b>	VIDEOI/(b)	VCR: Standby mode	45
	Buttons under cover		
2	and a surface cover	Displaying of the time	
<b>a</b>	CH +/-	VCR operation	
•	VTR 1 2 3 4 MDP	Video equipment selector Buttons for VCR operation	43
20	<b>→•</b> ←	Resetting of picture setting	32

### TV-set - front and top

Sym	nbol	Description	See page
Α	G	Headphone jack	46
В	<del>-</del> ® 3	S-video input jack	44
С	$\bigcirc$ 3, $\bigcirc$ 3	Phono video/audio inputs	44
D	Ф	Indicator for Standby mode	32
Ε	①	Power switch	32
F	→	Selecting of input source	44
G	⊿+/-	Volume control	32
Н	PROGR +/-	Channel selection up- and downwards	32
I	CONTROL	Control panel: Switching on/off	32



TV-set - rear

Sym	ibol	Description	See page
J	<b>⊕</b> 1/ <b>-©</b> 1	21-pin Euro connector (Scart)	44
K	⊕2/-32	21-pin Euro connector (Scart)	44
L	⊕3/-⊚3	21-pin Euro connector (Scart)	44
M	٦٢	Aerial socket	30
N	$\ominus_{R/D/D/D}^{L/G/S/I}$	Audio phono jacks	46

### **First Time Operation**

The following chapter contains all the steps necessary when first installing your TV and

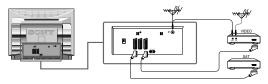
### Step 1 Installation

### A Connecting the TV Set

- Connect the TV set to the mains socket (220-240 V. AC, 50 Hz).
- 2b Connect your Satellite Receiver to one of the Scart connectors J K L of the TV set.

### (1) When connecting a VCR to your TV set:

We recommend that you use the preset function Manual Programme Preset (page 33) to tune in the VCR signal to programme position 0.



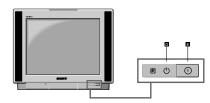
### B Inserting the Batteries into the Remote Control

Make sure to insert the batteries using the correct polarities. Make sure to insert the batteries according to your local regulations.



### C Switching on the TV Set

- Press the switch ① **E** at the front of the TV set.
- f the standby mode indicator ⊕ on the TV is lit, press TV I/⊕ on the Remote Control to switch on the TV set.



### Step 2 Basic Presetting

### A The Menu System

- Your TV uses an on-screen menu system to guide you through the operations. Use the following buttons on the Remote Control to operate the menu system:
- · Press MENU 10 to switch the menu on and off.
- Use ◀, ▶, ♠, ▼ of the joystick ⑥ to select within the menu system.
- Press OK to store.
- · When menu is switched off:

Press ◀ to return to the last menu screen.





### B Selecting Language and Country

- Press the MENU @ button.
- ➡ The menu Language/Country appears on the screen.
- Push the joystick **1** to ▶. Push the joystick **1** to ▼ to select the language.
- The menus appear in the selected language.
- 3 Push the joystick **1** to **▼** to select Country. Push the joystick **1** to **►**.
- Select the country in which you will operate the TV set using ▼ or ▲. Confirm by pressing OK 1.
- The menu Auto Tuning appears.





### C Automatic Tuning In of Channels

- After all available channels are stored, the TV goes back to the programme position with which you started the automatic tuning. Your TV is now ready
- To stop the automatic tuning: Press OK 1.
- □ If you wish to change the sequence of the stored channels, go to Sorting Programme Positions in Advanced Presetting.
- □ If you need to change or repeat the tuning afterwards (e.g. when you move house) : select the menu Auto Tuning in the Set Up 🏝 menu.





30 First Time Operation First Time Operation 31

### **Advanced Operation**

### **Advanced Presetting**

### Sorting of Programme Positions

- After having used Automatic Tuning of channels you may wish to rearrange the order of the channels
- 1 Press MENU. Select the symbol using ▼. Push to ▶.
- 2 Select Programme Sorting using ▼. Push to ▶ to enter.
- Select the programme position of the channel you wish to sort using ▲ or ▼.
- Move the channel to the new programme position using ▲ or ▼. Store by
- The channel is now at the new position. The other programme positions
- To sort other programme positions repeat steps 3 to 4.
- Press MENU to return to the normal TV screen.

### Manual Tuning In of Channels

- Use this function to preset channels or a video input source one by one to programme positions of your choice.
- Press MENU. Select the symbol \( \overline{\overline{\text{\pi}}} \) using \( \nblue{\text{\pi}}.\) Push to \( \nblue{\text{\pi}}.\)
- Select Installation using ▼. Push to ▶ to enter. Select Manual Programme Preset using ▼. Push to ▶ to enter.
- Select the programme position by pushing to ▲ or ▼. Push twice to ▶.
- The column SYS is highlighted.
- Select the TV system using ▲ or ▼. Push to ▶ to enter.
- Available TV systems are B/G for western European countries, D/K for eastern European countries, EXT for a video input source (please go to step 5c after selecting EXT)
- The column SEARCH is highlighted.
- Select your method for the channel tuning using ▲ or ▼. Push to ▶ to enter.
- You have the choice between C for a terrestrial channel, S for a cable channel, F for direct frequency input.
- a Direct Channel Input S, C or F
- For channel numbers input a two digit number, for the channel frequency a three digit number.
- Select the two or three digits by using the number buttons 0 to 9.
- To start the search and to store the channel, press OK.
- To preset other channels repeat steps 3 to 5a.
- b Channel search (SEARCH)
- Use Search if you do not know the channel number or frequency
- Start the search for the next available channel by pushing to ▼.
- Store the channel by pressing OK or continue the search by pushing again to ▼.
- To search for other channels repeat steps 3 to 5b.
- c For video input sources (EXT)
- Select the Video Input source using ▲ or ▼.
- Store your selection by pressing OK.
- To allocate other sources repeat steps 3 to 5c.
- Press MENU to return to the normal TV screen



















### **Advanced Operation**

### **Advanced Presetting**

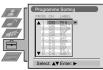
### **Sorting of Programme Positions**

- After having used Automatic Tuning of channels you may wish to rearrange the order of the channels.
- Press MENU. Select the symbol \( \overline{\pi} \) using \( \nblue{\psi} \). Push to \( \nblue{\psi} \).
- Select Programme Sorting using ▼. Push to ▶ to enter.
- Select the programme position of the channel you wish to sort using ▲ or ▼.
- Move the channel to the new programme position using **▲** or **▼**. Store by
- The channel is now at the new position. The other programme positions
- To sort other programme positions repeat steps 3 to 4.
- Press MENU to return to the normal TV screen.

### Manual Tuning In of Channels

- Use this function to preset channels or a video input source one by one to programme positions of your choice.
- 1 Press MENU. Select the symbol using ▼. Push to ▶.
- Select Installation using **▼**. Push to **▶** to enter. Select Manual Programme Preset using ▼. Push to ▶ to enter.
- Select the programme position by pushing to ▲ or ▼. Push twice to ▶
- The column SYS is highlighted.
- Select the TV system using ▲ or ▼. Push to ▶ to enter.
- Available TV systems are B/G for western European countries, D/K for eastern European countries, EXT for a video input source (please go to step 5c after selecting EXT)
- → The column SEARCH is highlighted.
- Select your method for the channel tuning using ▲ or ▼. Push to ► to enter.
- You have the choice between C for a terrestrial channel, S for a cable channel, F for direct frequency input.
- Direct Channel Input S, C or F
- For channel numbers input a two digit number, for the channel frequency a three digit number.
- Select the two or three digits by using the number buttons 0 to 9.
- · To start the search and to store the channel, press OK.
- To preset other channels repeat steps 3 to 5a.
- b Channel search (SEARCH)
- Use Search if you do not know the channel number or frequency
- Start the search for the next available channel by pushing to  $\nabla$ .
- Store the channel by pressing OK or continue the search by pushing again to ▼.
- To search for other channels repeat steps 3 to 5b.
- c For video input sources (EXT)
- Select the Video Input source using ▲ or ▼.
- · Store your selection by pressing OK.
- To allocate other sources repeat steps 3 to 5c.
- Press MENU to return to the normal TV screen.



















### **Advanced Presetting**

### Captioning a Station Name

- During presetting the channels are usually labelled automatically.
  You can, however, individually name a channel or a video input source.
- 1 Press MENU. Select the symbol dusing ▼. Push to ▶.
- 2 Select Installation using ▼. Push to ▶ to enter. Select Manual Programme Preset using ▼. Push to ▶ to enter.
- 3 Select the programme position of the channel or the video source you wish to label by pushing to ▼ or ▲. Push repeatedly to ▶ until the first element of the position LABEL is highlighted.
- 4 Select a number, a letter, + or a blank using ▲ or ▼. Push to ▶ to confirm. Select the other four characters in the same way.
- 5 Store your selection by pressing OK.
- 6 To label other channels or video sources repeat steps 3 to 5.
- 7 Press MENU to return to the normal TV screen.

# Manual Decements Protest All Control State Control State

### PROG SKIP SYS SEARCH LABEL 6 Off B/G C07

### **Skipping of Programme Positions**

- In case of 100 programme positions there may be unused positions, which you can skip in the menu Manual Programme Preset. When changing channels with the PROGR +/- buttons they do then not appear. You can, however, still select them using the number buttons.
- 2 Select Installation using ▼. Push to ► to enter. Select Manual Programme Preset using ▼. Push to ► to enter.
- 3 Select the programme position you wish to skip by pushing to ▲ or  $\blacktriangledown$ . Push to  $\blacktriangleright$  to enter.
- The column SKIP is highlighted.
- 4 Select ON using ▼.
- 5 Store by pressing OK.
- 6 To skip other programme positions repeat steps 3 to 5.
- 7 Press MENU to return to the normal TV screen.



### **Advanced Presetting**

### Using of Further Programme Preset

- Using the menu Further Programme Preset you can
  - a) individually adjust the volume level of each channel.
  - b) improve the quality of a weak channel  $\,$  (picture or sound distortions) with manual fine tuning.
  - c) preset the AV output for programme positions of those channels with scrambled signals (e.g. from a Pay TV decoder). In this way a connected VCR records the unscrambled signal.
- 2 Select Installation using ▼. Push to ▶ to enter. Select Further Programme Preset using ▼. Push to ▶ to enter.
- 3 Select the programme position of the desired channel by pushing to ▲ or ▼. Push repeatedly to ▶ to select: VOL (Volume Offset), AFT (Automatic Fine Tuning) or DECODER.
- The selected item changes colour.
- 4a VOL

Push to  $\blacktriangle$  or  $\blacktriangledown$  to adjust the volume level (range -7 to +7) of the channel. Store by pressing OK.

Repeat steps 3 and 4a if you wish to adjust the volume level of other channels.

b AFT

Push to ▼ to select OFF. Push to ► to enter Manual Fine Tuning. Push to ▲ or ▼ to fine tune the channel (range -15 to +15). Store by pressing OK.

Repeat steps 3 and 4b if you wish to fine tune other channels.

c DECODER

Push to ▲ or ▼ to select AV1 (Euro AV socket 1) or AV2 (Euro AV socket 2) as output for the video source on this programme position. Store by pressing OK. Repeat steps 3 and 4c if you wish to preset the AV output of other video sources.

Should you use Auto Tuning afterwards, this setting will be cancelled.

5 Press MENU to return to the normal TV screen.











### Auvanceu Presetti

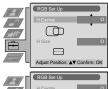
for an RGB Source

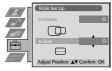
### When connecting an RGB source such as a Sony playstation you may need to readjust the picture geometry.

- 1 Select the connected RGB source → by pressing → repeatedly.
- 2 Press MENU. Select the symbol ⊕ using ▼. Push to ▶.

Adjusting the Picture Geometry

- 3 Select Installation using ▼. Push to ► to enter. Select RGB Set Up using ▼. Push to ► to enter.
- 4 Select H Centre by pushing to ▶. Adjust the centre of the picture (range from -5 to +5) using ▲ or ▼. Store by pressing OK.
- 5 Select H Size using ▼. Push to ▶ to enter. Adjust the horizontal coordinates (range from -5 to +5) using ▲ or ▼. Store by pressing OK.
- 6 Press MENU to return to the normal TV screen.





### Adjusting the Picture Rotation

- Because of the earth magnetism the picture might slant. In this case you can readjust the picture.
- 1 Press MENU. Select the symbol using ▼. Push to ▶.
- 2 Select Installation using ▼. Push to ▶ to enter. Select Picture Rotation using ▼ Push to ▶ to enter.
- 3 Adjust the Picture Rotation (adjusting range -4 to +4) by pushing to ▲ or ▼ Store by pressing OK.
- 4 Press MENU to return to the normal TV picture.



### **Advanced Presetting**

### Inputting Your Personal ID

- You can programme your TV with a safety code, so that you can be traced if your TV is stolen and recovered. This code can only be input once!

  Make sure to write it down in this Instruction Manual.
- 1 Press MENU. Select the symbol ⊕ using ▼. Push to ▶.
- 2 Select Installation using ▼. Push to ► to enter. Select Personal ID using ▼. Push to ► to enter.
- 3 a Select the first of a total of 11 characters (letter, number, + or a blank) by using  $\blacktriangle$  or  $\blacktriangledown$ .
- b Push to ▶ to go to the next character.
- c Repeat a and b for all characters.
- 4 Store by pressing OK.
- 5 Press MENU to return to the normal TV screen.



### Presetting and Labelling of Input Sources

- Using AV Preset you can select the automatic format function and label an input source.
- 1 Press MENU. Select the symbol <u>⊕</u> using **▼**. Push to **▶**.
- 2 Select AV Preset using **▼**. Push to **▶** to enter.
- 3 Select the desired AV input (AV 1, 2 or 3) using ▲ or ▼. Push to ▶ enter.
- After each step you have the choice between memorizing (press OK) or going to the next item (push to ▶).
- For automatic format selection of the AV input:
- a Push to ▶ to select Auto Format.
- b Select On or Off using ▲ or ▼.
- 5 To label the source:
- a Push to ▶ to select Label.
- b Select the first character using ▲ or ▼. Push to ▶ to confirm.
- c Repeat step b to select the other 4 characters.
- d Store by pressing OK.
- 6 Repeat steps 3 to 5 for the other AV inputs.
- 7 Selecting the AV3 Input Source:
- In case of AV3 you have the choice between the front AV3 sockets **B C** or the rear Scart 3 **T** connector.
- a Push to ▼ to select AV3 Input. Push to ▶ to enter
- b Select Front or Rear using ▲ or ▼.
- c Store by pressing OK.
- 8 Press MENU to return to the normal TV screen.





### **Advanced TV operation**

### Adjusting Picture and Sound

- Picture and sound are adjusted at the factory. You can, however, adjust them individually.
- Press MENU.
   Select the symbol for Picture or for Sound using or ▼.
   Push to ▶ to enter.
- The menu Picture or Sound Control is displayed.
- 2 Select the desired item using **△** or **▼**. Push to **►** to enter.
- 3 Adjust the selected item using **△**, **▼**, **▶** and **◄**. Press OK to store.
- Refer to the tables on this and the following page for more information.
- 4 Repeat steps 2 and 3 to adjust other items.
- 5 Press MENU to return to the normal TV screen.

### Picture Control

Personal (for individual settings) Movie (for movie broadcasts) Live (for live broadcasts)			
<b>◆</b> More			
ker ◀ ▶ Brighter			
■ More			
enish ◀ ▶ Reddish			
er ◀ ▶ Sharper			
ets picture to the factory preset levels			
▼ Off: normal  On: Automatic optimization of contrast level according to the TV signal			
▼ Off: Normal  On: Reduces picture noise in case of a weak broadcasting signal			

- \* Only if Personal is selected in Picture Mode
- \*\* Only available for NTSC colour signal (e.g. US video tapes)









### Advanced TV operation

### Sound Control

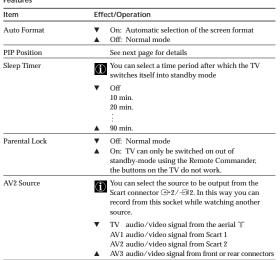
Souria Control		
Item	Effect/Operation	Personal Vocal
Equaliser Mode	Select between the following sound settings  ▲ Personal Vocal Jazz Rock Pop ▼ Flat (fixed setting, cannot be adjusted)	Audio Adjument Equation Mode  Equation Mode  Equation Mode  Equation Mode  Equation Mode  Space Adjument  Output  Outp
Equaliser adjustment	You can adjust the mode selected in Equaliser mode by cutting and boosting of 5 selected frequency bands.  ⚠ Only the changes made in Personal can be stored, the others return to factory setting.  Select the desired bar using ▶ or ◀, adjust using ▲ and ▼.  Press OK to store.	Select Mode: A*Confirm OK
Balance	More left     More right	Balance
Loudness	<ul><li>▲ Off: Normal</li><li>▼ On: For music broadcasts</li></ul>	Loudness On On
Space	<ul><li>▲ Off: Normal</li><li>▼ On: Special accoustic effect</li></ul>	Space On On
Auto Volume Control	<ul> <li>▼ On: volume level of the channels will stay the same independent of the broadcast signal (e.g. in case of advertisements)</li> <li>▲ Off: volume level changes according to the broadcast signal</li> </ul>	Auto Vol. Control
Dual Sound	<ul> <li>For a bilingual broadcast:         A for channel 1 ▼ ▶B for channel 2     </li> <li>For a stereo broadcast:         Stereo ▼ ▶Mono         For a Nicam broadcast: When receiving a Nicam broadcast »NICAM« appears briefly on the screen.     </li> </ul>	Dual Sound Survey
Headphones ⊖ Volume ⊖ Dual Sound	Less ◀ ►More  • For a bilingual broadcast: A for channel 1◀ ►B for channel 2  • For a stereo broadcast: Stereo◀ ►Mono • PIP  When PIP is switched on, you can additionally select the PIP sound for the headphones	(i) Volume Sound Stereo

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### Using the Features Menu

- 1 Press MENU. Select the symbol w using ▼. Push to ▶.
- Select the desired menu item using ▼. Push to ▶ to enter.
- Select the desired setting using ▲ or ▼.
- Store by pressing OK.
- 5 Press MENU to return to the normal TV screen.

### Features













### Advanced TV operation

### **Using Picture-in-Picture**

 $\begin{tabular}{ll} \hline \textbf{(i)} & Picture-in-Picture (PIP) lets you display a second, small screen within the main TV picture. In this way you can watch the video output from any connected $T_{\rm c}$ and $T_{\rm c}$ are the picture of the picture of$ equipment, e.g., from a VCR, while watching TV.

### Switching PIP on and off

- Press () () ().
- The small screen is displayed.
- Press 🕒 / 🕦 6 again to switch PIP off.

### Selecting a PIP source

- Press 1 6.
- The symbol **†** is displayed in the bottom left-hand corner of the screen.
- 2 Press → ③ repeatedly until the desired source appears.
- You can select between
- TV, AV1, AV2, YC2, AV3 and YC3.
- o If no video source (e.g. VCR or Camera) is connected, the PIP will be noisy.
- You cannot display an RGB source in the PIP.

### Swapping the screens

- Press ♠/② 4.
- The two screens are swapped.

### Changing channels if the TV picture is in the PIP

• First press 1, then the respective number buttons.

### Changing the PIP position

- There are four different positions of the small screen within the main screen. Select the PIP position in the Features menu.
- 1 Press MENU. Select the symbol <u>★</u> using ▼. Push to ▶ to enter.
- Select PIP position by pushing to ▼. Push to ▶ to enter.
- Select the desired position using **▼** or **△**. Press OK to select.
- Press MENU to return to the normal TV screen.











### Teletext

Most TV channels broadcast information via teletext. The index page of the teletext service (usually page 100) gives you information on how to use their service.

¶ Make sure to use a TV channel with a strong signal, otherwise there may be Teletext errors.

### **Direct Access Functions**

### Switching Teletext on and off

- 1 Select the TV channel which carries the teletext service you want to view
- 2a Press 🗐 🚳 once to switch teletext on.
- The teletext menu is displayed.
- b Press twice for Mix mode.
- The TV broadcast and the Teletext display are overlapped.
- 3 Press □ ② or press ≡ a third time to switch teletext off.

### Selecting a Teletext Page

Direct Page Selection

- Input the three digits of the page number using the number buttons **3**
- If you have made a mistake:
  - Type in any three digits, then reenter the correct page number.

### Page Catching

- 1 Select a teletext page which has several page numbers on it (e.g., the index page).
- Press OK 10.
- ► Page Catching is displayed at the top of the page
- 3 Select the desired page number using ▲ or ▼ ① and press OK.
- The requested page is displayed after some seconds.

### Selecting the next or the preceding page

### Selecting the index page

Press • 2.

### Selecting a subpage

- A teletext page may consist out of several subpages. In this case an information line is displayed, showing the number of the subpages.
- Select the mode by pushing to ▲. Select the subpage by using ▲ or ▼.

### Freezing a Teletext subpage

- 1 Press 🕪 3 or 🖲
- The symbol ⊕ 3 is displayed and the subpage is not updated.
- 2 Press 🗐 🚳 to resume normal teletext reception.

### Using Fastext\*

\*depending on availability of service

- Fastext lets you access pages with one button stroke. When Fastext is broadcast, a colour-coded menu appears at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the Remote Control O. O. O. O.
- · Press the coloured button which corresponds to the colour in the colour-coded menu.





### Teletext

### Using the Teletext Menu

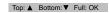
- This TV set has a menu-guided teletext system. When teletext is switched on you can use the joystick buttons to operate the teletext menu
  - Select the menu functions as follows:
- Press MENU 1.
- The Teletext menu is superimposed on the teletext display.
- Select the teletext function using ▲ or ▼ ①. Push to ▶ to enter.

### Top/Bottom/Full

- For convenient reading of a Teletext page you can enlarge it.

  After having selected the function, a sub menu Top ▲ Bottom ▼ Full OK
- Push to ▲ to enlarge the upper half of the screen, push to ▼ to enlarge the lower half. Press OK to resume the normal size.





### Text Clear

- After having selected the function, you can watch a TV channel while waiting for a requested Teletext page. As soon as the page is available, the symbol  $\ensuremath{\circledcirc}$ changes colour.

- Some teletext pages contain hidden information (e.g., for a quiz), which you can
- After having selected the function, the hidden information appears.
- Press 🗐 to resume the normal Teletext operation.

### Time Page\*

\*depending on availability of service

- You can call up a time-coded page such as an alarm page at a time specified
- After having selected the function a sub menu is displayed.
- Select On using ▲ or ▼. Push to ► to enter.
- Enter the three digits of the desired page using the number buttons **7**. Push to ▶ after each digit.
- Enter the four digits of the desired time using the number buttons **7**. Push to ▶ after each digit.
- 4 Press OK to store.
- The time is displayed in the top left-handed corner of the screen. At the requested time the page is displayed.

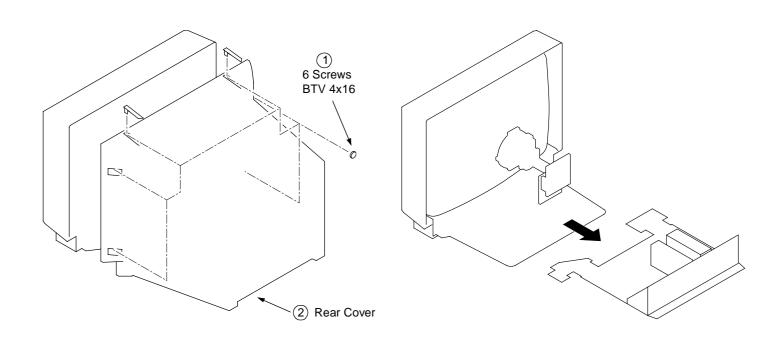


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# SECTION 2 DISASSEMBLY

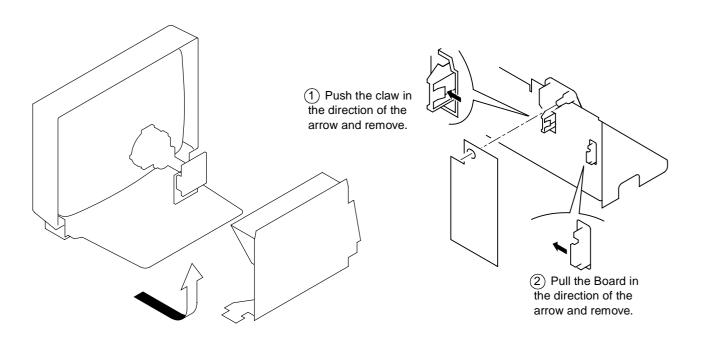
### 2-1. REAR COVER REMOVAL

### 2-2. CHASSIS ASSY REMOVAL



### 2-3. SERVICE POSITION

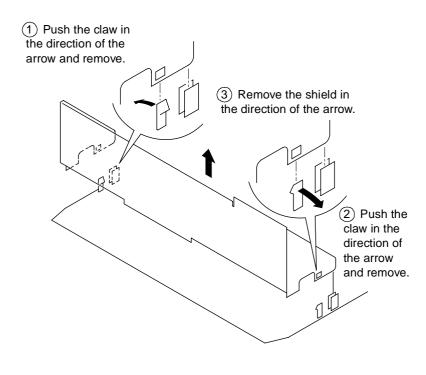
### 2-4. U BOARD REMOVAL



### 2-5. J BOARD REMOVAL

# 1) Push the claw in the direction of the arrow and remove. 2) Pull the Board in the direction of the arrow and remove.

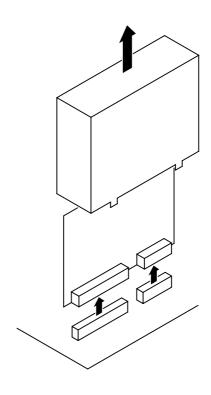
### 2-6. J SHIELD REMOVAL

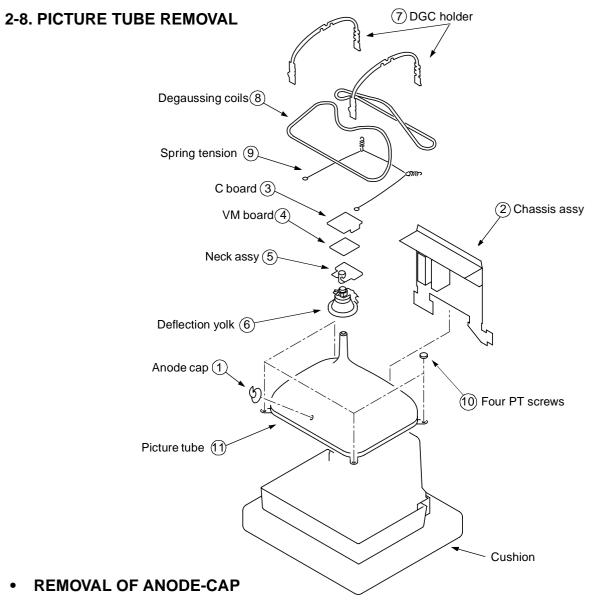


### 2-7. B2 BOARD REMOVAL

### **NOTE**

All other boards are removed in a similar manner to those shown





Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

### \* REMOVING PROCEDURES.



- 1 Turn up one side of the rubber cap in the direction indicated by the arrow (a)
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ
- When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ©

### HOW TO HANDLE THE ANODE-CAP

- To prevent damaging the surface of the anode-cap do not use sharp materials.
- Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
- A metal fitting called a shatter hook terminal is fitted inside the rubber cap. Do not turn the rubber foot over excessively this may cause damage if the shatter hook sticks out.





## REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET BOTTOM PLATES.

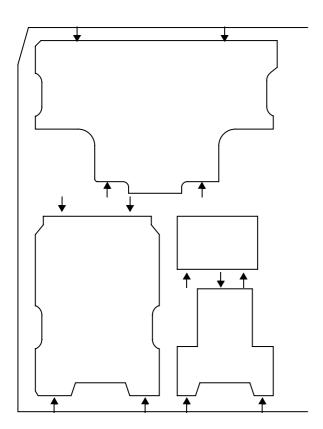
### (1) REMOVING THE PLATES

In the event of servicing being required to the solder side of the D Board printed wiring board, the bottom plates fitted to the main chassis bracket require to be removed.

This is performed by cutting the gates with a sharp wire cutter at the locations indicated by arrows.

**Note :**There are 4 plates fitted to the main bracket and secured by 4 gates.

Only remove the necessary plate to gain access to the printed wiring board.



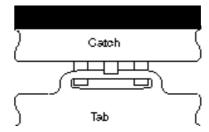


For safety reasons, on no account should the plates be removed and not refitted after servicing.

### (2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.

Please note that the plates need to be rotated 180 degrees from the cut position to allow the tabs to be fitted in the catch positions.



## SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings:

Contrast	 normal
Brightness	 normal

Carry out the following adjustments in this order:

- 3-1. Beam Landing
- 3-2. Convergence
- 3-3. Focus
- 3-4. White balance

**Note:** Test equipment required

- 1. Color bar/pattern generator.
- 2. Degausser.
- 3. Digital multimeter.
- Oscilloscope.

### 3-1. BEAM LANDING

### **Preparation:**

- 1. In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
- Switch on the set's power and degauss with the degausser.

### (1) Adjustment of Correction Magnet for Y-Splitting Axis

- 1. Input a crosshatch signal from the pattern generator.
- Set the Picture control to minimum and confirm that the Brightness control is set to normal.
- 3. Position the neck assembly as indicated in Fig.3-2.
- 4. Move the deflection yolk as far forward as is possible.
- Adjust the upper and lower pin symmetrically by opening or closing the Y-splitting axis correction magnets located on the neck assembly.
- 6. Return the deflection yolk to its original position.

# Y-splitting axis correction magnet

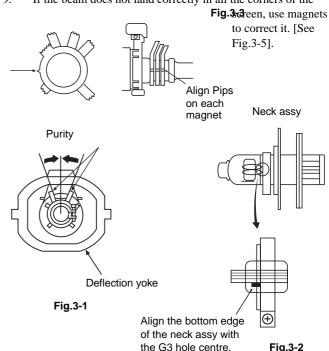
### **Caution:**

High voltages are present on the Deflection yolk terminals - take care when handling the Deflection yolk whilst carrying out adjustments.

### (2) Landing

**Note:** Before carrying out the following adjustments adjust the magnets as indicated below [See Fig.3-3].

- Input an all-white signal from the pattern generator.
   Maximize the picture setting and adjust the Brightness setting.
- 2. Rough-adjust the focus and horizontal convergence.
- 3. Loosen the deflection yolk screws and align the purity adjustment knob to its central position. [See Fig.3-1].
- 4. Switch from the all-white pattern to an all-green pattern.
- 5. Move the deflection yolk backwards and adjust with the purity magnet so that the green is at the centre and it aligns symmetrically. [See Fig.3-4].
- 6. Move the deflection yolk forward and adjust so that the entire screen becomes green.
- Switch the raster signal to red, then to blue and verify the landing condition.
- 8. When the position of the deflection yolk has been determined, fasten the deflection yolk with the screw.
- 9. If the beam does not land correctly in all the corners of the



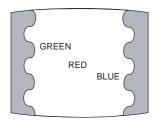


Fig.3-4

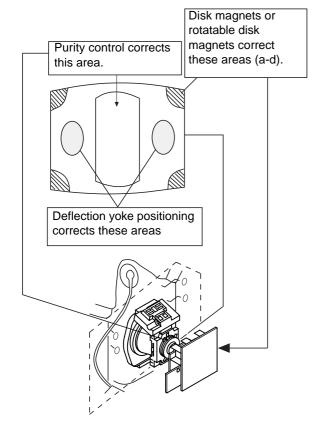
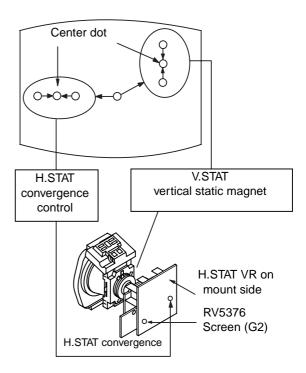


Fig. 3-5

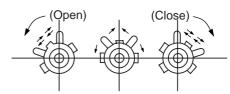
### 3-2. CONVERGENCE

- (1) Screen centre convergence [Static convergence]
- Input a dot signal from the pattern generator.
   Normalize the picture setting.
- [Moving horizontally], adjust the H.STAT control so that the horizontal red, green and blue dots coincide at the centre of the screen.
- 3. [Moving vertically], adjust the V.STAT magnet so that the vertical red, green and blue dots coincide at the centre of the screen.

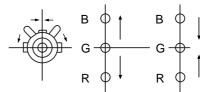


 If the horizontal dots are unable to coincide with the variable range of the H.STAT convergence, adjust together with the V.STAT convergence while tracking.

[Adjust the convergence by tilting the V.STAT convergence or by opening and closing the V.STAT convergence.]

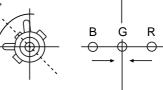


- 4. Movement of the red, green and blue dots by tilting the V.STAT magnet and by opening or closing the V.STAT magnet.
- a). By opening or closing the V.STAT magnet, the red, green and blue dots move as indicated below.

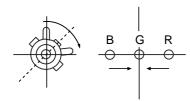


b). By rotating the V.STAT magnet counter clockwise, the red,

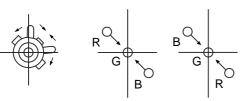
green and blue dots move as indicated below.



 By rotating the V.STAT magnet clockwise, the red, green and blue dots move in the direction indicated below.



d). By opening or closing the V.STAT magnet, the red, green and blue dots move in the direction indicated below.



**Note:** If the blue dot does not coincide with the red and green points correct the points by using the BMC [Hexapole] magnet.

- 5. Correction for HMC [horizontal mis-convergence] and VMC [vertical mis-convergence] by using the BMC [Hexapole] magnet.
- a). HMC correction by BMC [Hexapole] magnet and movement of the electron beam.

HMC correction(A)

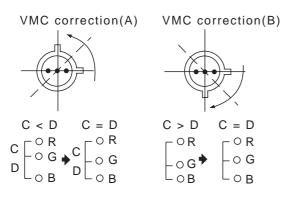
A < B R G B

O O O

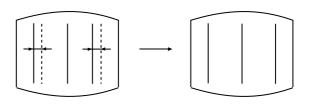
A = B R G B

A = B R G B

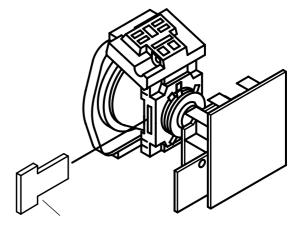
b). VMC correction by BMC [Hexapole] magnet and movement of the electron beam.



HAMP

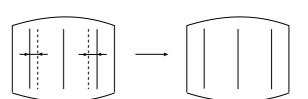


 HTIL correction can be performed by adding a THL correction ASSY to the DY.



TLH correction Assy 4-057-714-01

HTIL



### Layout of each control

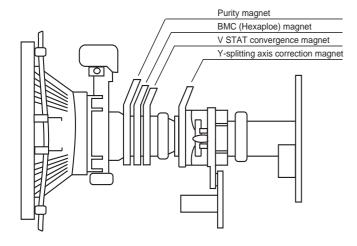
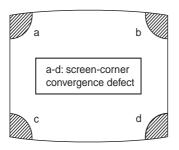
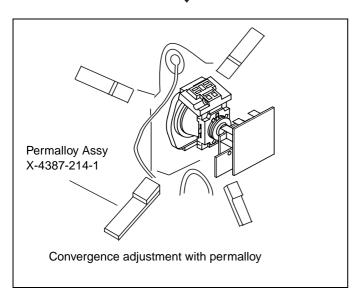


Fig 3-5

**Note:** If you are unable to adjust the corner convergence properly, this can be corrected with the use of permalloys.

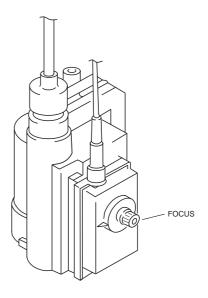






### **3-3. FOCUS**

- 1. Receive a television broadcast signal.
- 2. Normalize the picture setting.
- Adjust the focus control located on the flyback transformer to obtain the best focus at the centre of the screen.
   Bring only the centre area of the screen into focus, the magenta-ring appears on the screen. In this case, adjust the focus to optimize the screen uniformly.



### 3-4. SCREEN (G2), WHITE BALANCE

[Adjustment in the service mode using the remote commander]

### G2 adjustment (RV5376)

- 1. Input a dot signal from the pattern generator.
- 2. Set the Picture, Brightness and Colour to minimum.
- 3. Apply 175V DC from an external power supply to the R, G and B cathodes of the CRT.
- 4. Whilst watching the picture, adjust the G2 control RV5376 [SCREEN] located on the C Board to the point just before the flyback return lines disappear.

### White balance adjustment for TV mode

- 1. Input an all-white signal.
- 2. Enter into the Service Mode by pressing 'TEST', 'TEST' and 'MENU' 'MENU' on the Service Commander.
- 3. Select 'Backend' from the on screen menu display and press 'OK'.
- 4. The 'Backend' menu will appear on the screen.
- 5. Set the contrast to MAX.
- 6. Set the 'R DRIVE' to 41.
- 7. Adjust the 'G DRIVE' and 'B DRIVE' so that the white balance becomes optimum.
- 8. Press the 'OK' button to write the data for each item.
- 9. Set the contrast to MIN.
- 10. Set the 'R CUT-OFF' to 31.
- 11. Adjust the 'G CUT-OFF', and 'B CUT-OFF' with the left and right buttons on the remote commander so that the white balance becomes optimum.
- 12. Press the 'OK' button to write the data for each item.

		Backend			
No	Descr.	Def	Min	Max	Data
1	R-on	ON	OFF	ON	ON
2	G-on	ON	OFF	ON	ON
3	B-on	ON	OFF	ON	ON
4	D-col	OFF	OFF	ON	ON
5	Color-axis	2	0	3	2
6	Contrast	63	0	63	63
7	Limit-Luv	3	0	3	3
8	Hue	31	0	63	31
9	Colour	31	0	63	28
10	CTI -Level	2	0	3	2
11	Brightness	31	0	63	31
12	Gamma	2	0	3	2
13	Sharpness	31	0	63	44
14	LTI-Level	0	0	3	0
15	R-Drive	41	0	63	40
16	BLK-Bottom	0	0	3	0
17	G-Drive	41	0	63	38
18	ABL-TH	0	0	3	0
19	B-Drive	41	0	63	21
20	ABL-Mode	2	0	3	2
21	Sub Bright	31	0	63	32
22	VM-Level	2	0	3	2
23	R-Cutoff	31	0	63	41
24	Preover	2	0	3	2
25	G-Cutoff	31	0	63	45
26	DPIC-Level	2	0	3	2
27	B-Cutoff	31	0	63	48
28	DC-Tran	1	0	3	1
29	Sub-Cont	7	0	15	7
30	LRGB2-LvI	12	0	15	12
31	P-Abl	15	0	15	15
32	DL-Pass	OFF	OFF	ON	OFF
33	Sharp.Fo	ON	OFF	ON	ON
34	Aging-W	OFF	OFF	ON	OFF
35	Aging-B	OFF	OFF	ON	OFF
36	CB-offset1	7	0	15	7
37	CR-offset1	7	0	15	7
38	CB-offset2	7	0	15	7
39	CR-offset2	7	0	15	7
40	Sub Colour	0	-8	8	-1

# SECTION 4 CIRCUIT ADJUSTMENTS

### 4-1. ELECTRICAL ADJUSTMENTS

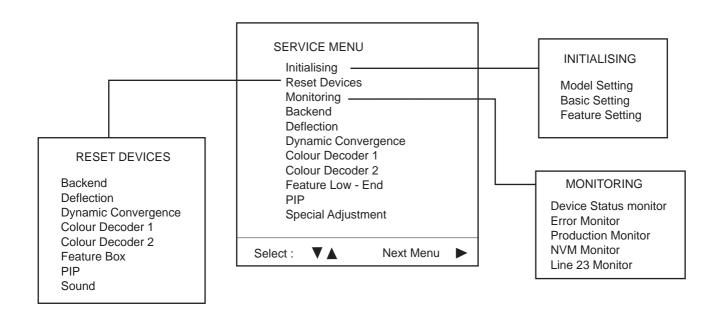
Service adjustments to this model can be performed using the supplied Remote Commander RM-891.

### **HOW TO ENTER INTO SERVICE MODE**

1. Turn on the main power switch of the set while pressing PROG + (plus) and PROG - (minus) buttons on the top panel.



- 2. "TT" will appear in the upper right corner of the screen.
- 3. Press the 'MENU' button twice on the remote commander to obtain the service menu on the screen.



- 4. Push the joystick up or down on the remote commander to select the adjustment item.
- 5. Push the right button to proceed to the next menu.
- 6. If the required adjustment item is 'Deflection', push the down button to move to 'Deflection'.
- 7. Push the joystick to the right to enter into 'Deflection'.
- 8. Change the data in order to comply with each standard.

### NOTE:

- Before performing any adjustments assure that the correct model has been selected in the Model Setting menu.
- After carrying out the service adjustments, to prevent the customer accessing the Service Menu switch the TV set OFF and then ON.

	Model Setting
1	KV-29FX60A/D/E
2	KV-29FX60B
3	
	KV-29FX60U
4	KV-29FC60A/D/E
5	KV-29FC60B
6	KV-29FC60K
7	KV-29FC60R
8	KV-29FS60A/D/E
9	KV-29FS60B
10	KV-29FS60K
11	KV-29FS60R
12	KV-28/32FX60A/D/E
13	KV-28/32FX60B
14	KV-28/32FX60K
15	KV-28/32FX60R
16	KV-28/32FX60U
17	KV-29FS60A/D/E
18	KV-29FS60B

Fig.4-1

	Basic setting						
No	Descr.	Min	Max	Data			
1	Sys.B/G	OFF	ON	ON			
2	Sys.D/K	OFF	ON	ON			
3	Sys.L	OFF	ON	ON			
4	Sys I (UK)	OFF	ON	OFF			
5	Sys I (IRL)	OFF	ON	OFF			
6	Russian sound	OFF	ON	OFF			
7	TXT Nod.option	1	4	3			
8	simple PAT	OFF	ON	OFF			
9	16:9 CRT	OFF	ON	OFF			
10	Sub-woofer	OFF	ON	ON			
11	Auto stand-by	OFF	ON	ON			
12	comb-filter	OFF	ON	OFF			
13	Auto YC det	OFF	ON	ON			
14	Auto comb det	OFF	ON	OFF			
15	AV2 Available	OFF	ON	ON			
16	AV3 Available	OFF	ON	ON			
17	AV4 Available	OFF	ON	OFF			
18	AV3 Front & rear	OFF	ON	ON			
19	SECAM Tape	OFF	ON	OFF			

Fig.4-2

### NOTE:

The above table is dependant on model, destination & size.

		Backend			
No	Descr.	Def	Min	Max	Data
1	R-on	ON	OFF	ON	ON
2	G-on	ON	OFF	ON	ON
3	B-on	ON	OFF	ON	ON
4	D-col	OFF	OFF	ON	ON
5	Color-axis	2	0	3	2
6	Contrast	63	0	63	63
7	Limit-Luv	3	0	3	3
8	Hue	31	0	63	31
9	Colour	31	0	63	28
10	CTI -Level	2	0	3	2
11	Brightness	31	0	63	31
12	Gamma	2	0	3	2
13	Sharpness	31	0	63	44
14	LTI-Level	0	0	3	0
15	R-Drive	41	0	63	40
16	BLK-Bottom	0	0	3	0
17	G-Drive	41	0	63	38
18	ABL-TH	0	0	3	0
19	B-Drive	41	0	63	21
20	ABL-Mode	2	0	3	2
21	Sub Bright	31	0	63	32
22	VM-Level	2	0	3	2
23	R-Cutoff	31	0	63	41
24	Preover	2	0	3	2
25	G-Cutoff	31	0	63	45
26	DPIC-Level	2	0	3	2
27	B-Cutoff	31	0	63	48
28	DC-Tran	1	0	3	1
29	Sub-Cont	7	0	15	7
30	LRGB2-Lvl	12	0	15	12
31	P-Abl	15	0	15	15
32	DL-Pass	OFF	OFF	ON	OFF
33	Sharp.Fo	ON	OFF	ON	ON
34	Aging-W	OFF	OFF	ON	OFF
35	Aging-B	OFF	OFF	ON	OFF
36	CB-offset1	7	0	15	7
37	CR-offset1	7	0	15	7
38	CB-offset2	7	0	15	7
39	CR-offset2	7	0	15	7
40	Sub Colour	0	-8	8	-1

Fig.4-3

Feature setting							
No	Descr.	Min	Max	Data			
1	PIP	OFF	ON	ON			

Fig.4-4

Colour Decoder 1					
	_				
No	Descr.	Def	Min	Max	Data
1	DelayLinMd	OFF	OFF	ON	OFF
2	Gain set	1	0	3	1
3	Y-Delay	7	0	15	7
4	Phase Time	0	0	3	0
5	Vid Ident Md	OFF	OFF	ON	OFF
6	Sync Mode	OFF	OFF	ON	OFF
7	Vid Ident Sw	ON	OFF	ON	ON
8	H-Output	OFF	OFF	ON	OFF
9	Enagating	OFF	OFF	ON	OFF
10	IF Circuit	ON	OFF	ON	ON
11	GP Delay	OFF	OFF	ON	OFF

Fig.4-5

	Colour Decoder 2					
No	Descr.	Def	Min	Max	Data	
1	DelayLinMd	OFF	OFF	ON	OFF	
2	Gain set	1	0	3	1	
3	Y-Delay	7	0	15	7	
4	Phase Time	0	0	3	0	
5	Vid Ident Md	OFF	OFF	ON	OFF	
6	Sync Mode	OFF	OFF	ON	OFF	
7	Vid Ident Sw	ON	OFF	ON	ON	
8	H-Output	OFF	OFF	ON	OFF	
9	Enagating	OFF	OFF	ON	OFF	
10	IF Circuit	ON	OFF	ON	ON	
11	GP Delay	OFF	OFF	ON	OFF	

Fig.4-6

Deflection					
No	Descr.	Def	Min	Max	Data
1	V-Size	31	0	63	34
2	V-Position	31	0	63	21
3	V-Comp	1	0	3	1
4	V-Linear	7	0	15	7
5	S-Corr	7	0	15	8
6	H-Size	31	0	63	29
7	EW-DC	OFF	OFF	ON	OFF
8	Pin-Amp	31	0	63	36
9	Up-Cpin	31	0	63	35
10	M-Pin	2	0	3	2
11	Lo-Cpin	31	0	63	37
12	Trapezium	7	0	15	7
13	H-Position	31	0	63	25
14	AFC-Bow	7	0	15	7
15	AFC-Angle	7	0	15	9
16	Up-Vlin	0	0	15	0
17	Lo-Vlin	0	0	15	0

Fig.4-7

	Dynami	c Conver	gence		
No	Descr.	Def	Min	Max	Data
1	Range	63	0	63	32
2	H Stat	33	0	63	33
3	H amp L	37	0	63	37
4	H amp R	36	0	63	36
5	Up Y	31	0	63	31
6	Low Y	33	0	63	33
7	Y Up L	30	0	63	30
8	Y Up R	30	0	63	30
9	Y Low L	31	0	63	31
10	Y Low R	30	0	63	30
11	Mbow Up L	31	0	63	31
12	Mbow Up R	32	0	63	32
13	Mbow Low L	32	0	63	32
14	Mbow Low R	32	0	63	32
15	V Stat	32	0	63	32
16	Linearity	128	0	255	104
17	H Centre	32	0	63	32
18	H Trap	32	0	63	32
19	Rotation	0	0	255	0
20	Focus Phase	128	0	255	128

Fig.4-8

Feature Low-End					
No	Descr.	Def	Min	Max	Data
1	F.S.F.M	OFF	OFF	ON	OFF
2	G-Mode	OFF	OFF	ON	OFF
3	Picture Pos	0	0	3	0
4	Comp Mode	OFF	OFF	ON	OFF
5	CompSW	OFF	OFF	ON	OFF
6	Acqu.freq	OFF	OFF	ON	OFF
7	Still Pic	OFF	OFF	ON	OFF
8	Init	OFF	OFF	ON	OFF
9	Dis Feature	ON	OFF	ON	ON
10	Dis Vlimit	ON	OFF	ON	ON
11	Scr Fade	0	0	3	0
12	Hwe Delay	20	0	255	20
13	Auto Vshift	OFF	OFF	ON	OFF
14	Vwe Delay	0	0	127	0
15	SFR sw	OFF	OFF	ON	OFF
16	IPQ	0	0	3	0
17	D.Col Dec	OFF	OFF	ON	OFF
18	Blankfield	0	0	15	0
19	P1.5	OFF	OFF	ON	OFF
20	P1.4	OFF	OFF	ON	OFF
21	P1.3	OFF	OFF	ON	OFF
22	P1.2	OFF	OFF	ON	OFF
23	P1.1	OFF	OFF	ON	OFF
24	Set Vdba	OFF	OFF	ON	OFF
25	Set Sidep	ON	OFF	ON	ON
26	Set Hwe	OFF	OFF	ON	OFF
27	Set Clv	OFF	OFF	ON	OFF
28	Set Hddel	OFF	OFF	ON	OFFF
29	Set Hblnd	OFF	OFF	ON	OFF
30	Set Hre	ON	OFF	ON	ON
31	Set Hbda	ON	OFF	ON	ON
32	Set Hdav	ON	OFF	ON	ON
33	Vbdasta	0	0	255	0
34	Vsdasto	0	0	255	0
35	Msbhwesto	OFF	OFF	ON	OFF
36	Msbhwesta	OFF	OFF	ON	OFF
37	Msbvbdasto	OFF	OFF	ON	OFF
38	Msbvbdasta	OFF	OFF	ON	OFF
39	Hdavsta	40	0	255	40
40	Hdavsto	255	0	255	255

	reatu	re Low-E	=na		
No	Descr.	Def	Min	Max	Data
1	F.S.F.M	OFF	OFF	ON	OFF
2	G-Mode	OFF	OFF	ON	OFF
3	Picture Pos	0	0	3	0
4	Comp Mode	OFF	OFF	ON	OFF
5	CompSW	OFF	OFF	ON	OFF
6	Acqu.freq	OFF	OFF	ON	OFF
7	Still Pic	OFF	OFF	ON	OFF
8	Init	OFF	OFF	ON	OFF
9	Dis Feature	ON	OFF	ON	ON
10	Dis Vlimit	ON	OFF	ON	ON
11	Scr Fade	0	0	3	0
12	Hwe Delay	20	0	255	20
13	Auto Vshift	OFF	OFF	ON	OFF
14	Vwe Delay	0	0	127	0
15	SFR sw	OFF	OFF	ON	OFF
16	IPQ	0	0	3	0
17	D.Col Dec	OFF	OFF	ON	OFF
18	Blankfield	0	0	15	0
19	P1.5	OFF	OFF	ON	OFF
20	P1.4	OFF	OFF	ON	OFF
21	P1.3	OFF	OFF	ON	OFF
22	P1.2	OFF	OFF	ON	OFF
23	P1.1	OFF	OFF	ON	OFF
24	Set Vdba	OFF	OFF	ON	OFF
25	Set Sidep	ON	OFF	ON	ON
26	Set Hwe	OFF	OFF	ON	OFF
27	Set Clv	OFF	OFF	ON	OFF
28	Set Hddel	OFF	OFF	ON	OFFF
29	Set Hblnd	OFF	OFF	ON	OFF
30	Set Hre	ON	OFF	ON	ON
31	Set Hbda	ON	OFF	ON	ON
32	Set Hdav	ON	OFF	ON	ON
33	Vbdasta	0	0	255	0
34	Vsdasto	0	0	255	0
35	Msbhwesto	OFF	OFF	ON	OFF
36	Msbhwesta	OFF	OFF	ON	OFF
37	Msbvbdasto	OFF	OFF	ON	OFF
38	Msbvbdasta	OFF	OFF	ON	OFF
39	Hdavsta	40	0	255	40
40	Hdavsto	255	0	255	255

Feature Low-End(Cont.)					
No	Descr.	Def	Min	Max	Data
41	Hbdasta	223	0	255	223
42	Hbdasto	222	0	255	222
43	Hresta	38	0	255	38
44	Hresto	202	0	255	202
45	Hblndsta	31	0	255	31
46	Hblndsto	30	0	255	30
47	MsbHblndsta	OFF	OFF	ON	OFF
48	MsbHbIndsto	OFF	OFF	ON	OFF
49	Msb Hresto	ON	OFF	ON	ON
50	Msb Hresta	OFF	OFF	ON	OFF
51	Msbhbdasta	ON	OFF	ON	ON
52	Msbhbdasto	ON	OFF	ON	ON
53	Msbhdavsto	ON	OFF	ON	ON
54	Msbhdavsta	OFF	OFF	ON	OFF
55	Hddel	0	0	15	0
56	Clvsta	0	0	255	0
57	Clvsto	9	0	255	9
58	Hwesta	44	0	255	44
59	Hwesto	208	0	255	208
60	Ex-Thres	OFF	OFF	ON	OFF
61	Wes	ON	OFF	ON	OFF
62	Demo mode	ON	OFF	ON	OFF
63	Limerick NR	0	0	4	0
64	Nthr	0	0	255	2
65	Wval	200	0	255	200
66	Agc Ych	203	0	255	203
67	Agc Uvch	209	0	255	209
68	Aal-Bypass	OFF	OFF	ON	OFF
69	Stby Fr	OFF	OFF	ON	OFF
70	Lsb Agc-Uv	OFF	OFF	ON	OFF
71	Lsb Agc-Y	OFF	OFF	ON	OFF
72	Vcl cor	0	0	3	0
73	Ucl cor	0	0	3	0
74	Uv cor mode	0	0	3	0
75	Uvcl tau	3	0	3	3
76	Uvcol Lvl	0	0	3	0
77	Fil Mem	OFF	OFF	ON	OFF
78	Overl Thr	1	0	3	1
79	Y delay f	4	0	7	4
80	Dcti pdxsel	ON	OFF	ON	ON

Fig.4-9

	Feature I	_ow-End	(Cont.)		
No	Descr.	Def	Min	Max	Data
81	Dcti Thres	0	0	15	0
82	Dcti Gain	0	0	7	0
83	Dcti Super	ON	OFF	ON	ON
84	Dcti Fil	ON	OFF	ON	ON
85	Dcti Prot	ON	OFF	ON	ON
86	Dcti Sep	ON	OFF	ON	ON
87	Dcti Limit	2	0	3	2
88	Peak Beta	0	0	7	0
89	Peak Alpha	2	0	7	2
90	Peak Neg g	0	0	3	0
91	Peak Delta	0	0	3	0
92	Peak Tau	0	0	7	0
93	Peak Corth	0	0	15	0
94	Overlay V	0	0	15	0
95	Overlay U	0	0	15	0
96	Overlay Y	10	0	255	10
97	Sidep sta	240	0	255	240
98	Sidep sto	36	0	255	36
99	Y delay B	7	0	7	7
100	Invert UV	ON	OFF	ON	ON
101	Output Range	ON	OFF	ON	ON
102	Sidep Fdel	0	0	3	0

		PIP			
No	Descr.	Def	Min	Max	Data
1	Freeze	OFF	OFF	ON	OFF
2	Frame	ON	OFF	ON	ON
3	Pipon	ON	OFF	ON	OFF
4	Seldel	1	0	15	1
5	Mixdis	ON	OFF	ON	ON
6	H-Poshi	0	0	3	0
7	H-Pos	137	0	255	137
8	V-Pos	59	0	255	59
9	Y-Delay	0	0	7	0
10	V-Dec	OFF	OFF	ON	OFF
11	H-Dec	OFF	OFF	ON	OFF
12	Insvh	ON	OFF	ON	ON
13	Chrins	ON	OFF	ON	ON
14	Pmod	0	0	3	0
15	Imod	0	0	3	0
16	Clisw	ON	OFF	ON	ON
17	H side	4	0	15	4
18	Vsiisq	OFF	OFF	ON	OFF
19	Vsidel	0	0	31	0
20	Parasynd	ON	OFF	ON	ON
21	Vspisq	OFF	OFF	ON	OFF
22	Vspdel	10	0	31	10
23	Con	1	0	15	1
24	Fry	8	0	15	8
25	Frv	3	0	15	3
26	Fru	4	0	15	4
27	Sel Down	OFF	OFF	ON	OFF
28	Frwidv	1	0	3	1
29	Frwidh	2	0	7	2
30	Mat	4	0	7	4
31	Daconst	OFF	OFF	ON	OFF
32	Plltc	1	0	3	1
33	Dacontle	OFF	OFF	ON	OFF
34	Left	83	0	255	83
35	RightHi	1	0	3	1
36	Right	192	0	255	192
37	Up	46	0	255	46
38	Down	189	0	255	189

Fig.4-10

		Sound			
No	Descr.	Def	Min	Max	Data
1	Ref.Level	40	0	20	40
2	Auto-gain	ON	OFF	ON	ON
3	Ana-in	0	0	1	0
4	Corr-mute	ON	OFF	ON	ON
5	Clock out	ON	OFF	ON	ON
6	AM-gain	ON	OFF	ON	ON
7	Clip mode	0	0	2	0
8	SCART1 Vol	79	0	127	79
9	SCART2 Vol	79	0	127	79
10	SCART Pr	27	0	127	27
11	Izs1-pr	16	0	127	16
12	Izs2-pr	16	0	127	16
13	FM pr	27	0	127	27
14	BG Nic-pr	53	0	127	53
15	L Nic-pr	59	0	127	59
16	DK Nic-pr	53	0	127	53
17	l Nic-pr	97	0	127	97
18	Irl Nic-pr	97	0	127	97
19	AVC-Decay	2	0	8	2
20	Subw-vol	0	0	-127	0
21	Subw-freq	20	5	40	20
22	Subw-Hpuss	OFF	OFF	ON	OFF
23	Spat-stre	127	0	-1	127
24	Spat-Coeff	0	0	8	0
25	Bass offs	0	-3	3	0
26	Treble offs	0	-3	3	0
27	Loudn offs	0	0	9	0
28	Hp-voloffs	-2	-5	5	-2
29	M-S Limit	30	-128	127	30
30	M-B Limit	-30	-128	127	-30
31	S-M Limit	12	-128	127	12
32	S-B Limit	-20	-128	127	-20
33	B-M Limit	-12	-128	127	-12
34	B-S Limit	20	-128	127	20
35	Err.Max	40	0	255	40
36	Err.Min	14	0	255	18

Fig.4-11

	Special Adjustment				
No	Dager	Min	May	Doto	
No	Descr.	Min	Max	Data	
1	RGB Level	0	7	0	
2	RGB Gain	0	31	9	
3	RGB PatLevel	0	7	7	
4	RGB Patgain	0	31	31	
5	RGB H-position	-10	10	-1	
6	Extra Fw	0	255	255	
7	EPG Chks Check	OFF	ON	ON	
8	Slicer High	OFF	ON	ON	
9	FCW Wide	OFF	ON	ON	
10	High PII	OFF	ON	OFF	
11	Panic offset	0	2	0	
12	Wide Mute	OFF	ON	ON	

Fig.4-12

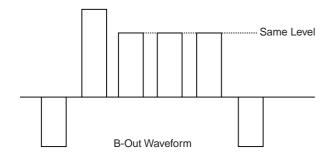
### **DEFLECTION SYSTEM ADJUSTMENT**

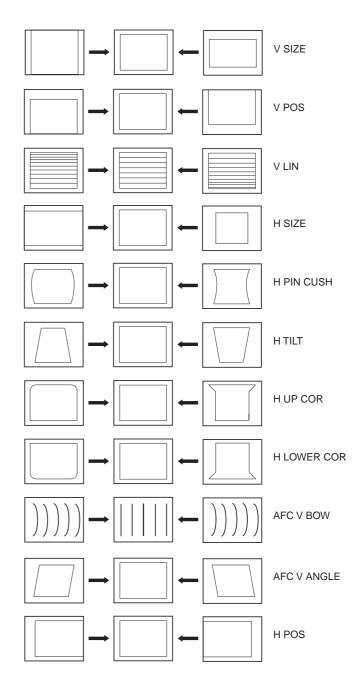
- 1. Enter into the service mode and select 'Deflection'. The 'Deflect' adjustment menu will be displayed.
- 2. Select and adjust each item to obtain the optimum image.

### **4-2.VOLUME ELECTRICAL ADJUSTMENTS**

### **Sub Colour Adjustment**

- 1. Input a PAL colour bar signal.
- 2. Connect an oscilloscope to CN5400 pin 5 on the C board.
- 3. Enter into the 'SERVICE MODE'.
- 4. Choose 'Backend'.
- 5. Adjust Sub Colour data so that the right sides of the waveforms are of equal height.





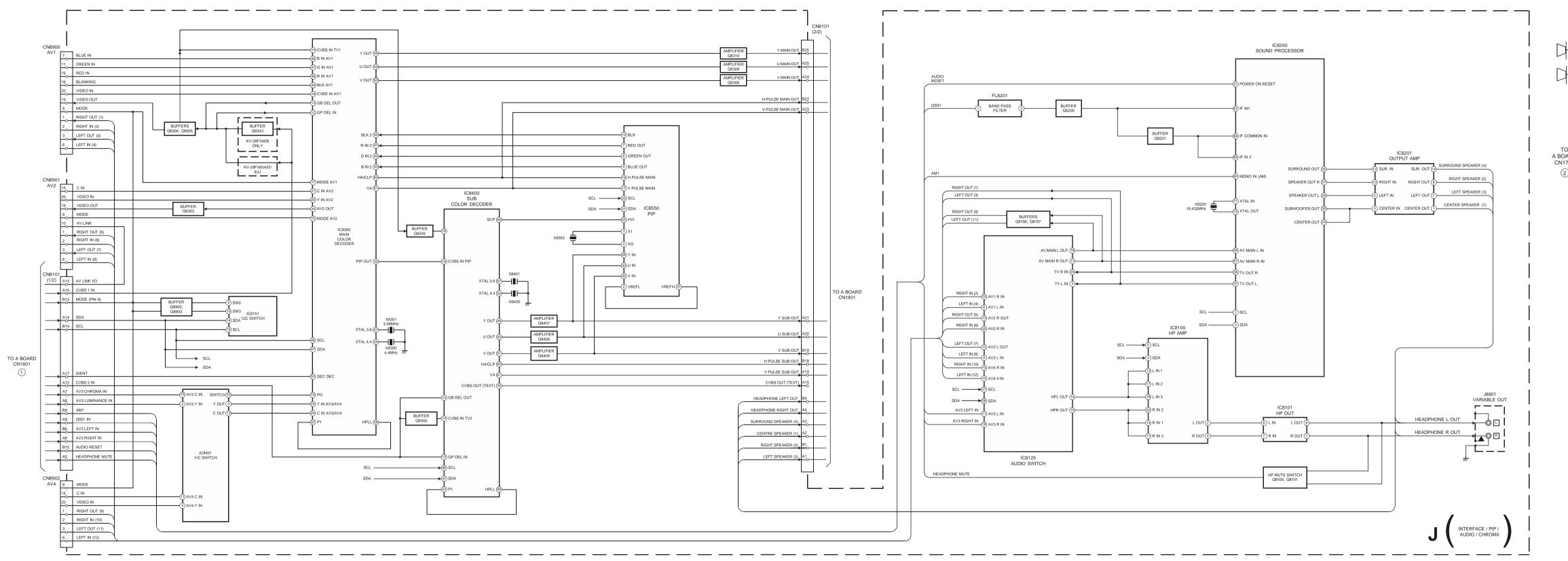
### 4-3. TEST MODE 2:

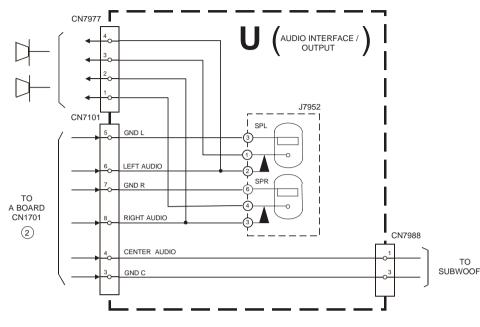
Is available by pressing 'TEST' button twice, OSD 'TT' appears. The functions described below are available by pressing the two numbers. To release the Test mode 2, press  $0, 10, 20 \dots$  twice or switch the TV set into Stand-by Mode. Pressing the two Local Control buttons ( + and -) during Power ON will also switch into 'TT' mode.

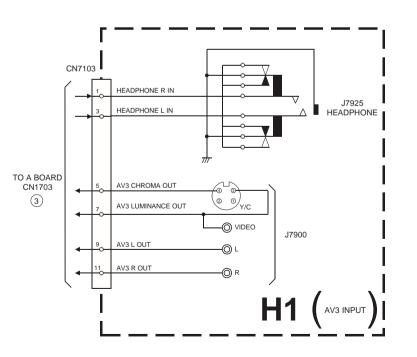
In 'TT' mode, it is possible to remove the Menu from the screen by pressing the Speaker Off button once. Pressing the Speaker OFF button a second time will cause the menu to reappear. The Function is kept even when the menu is not displayed!!.

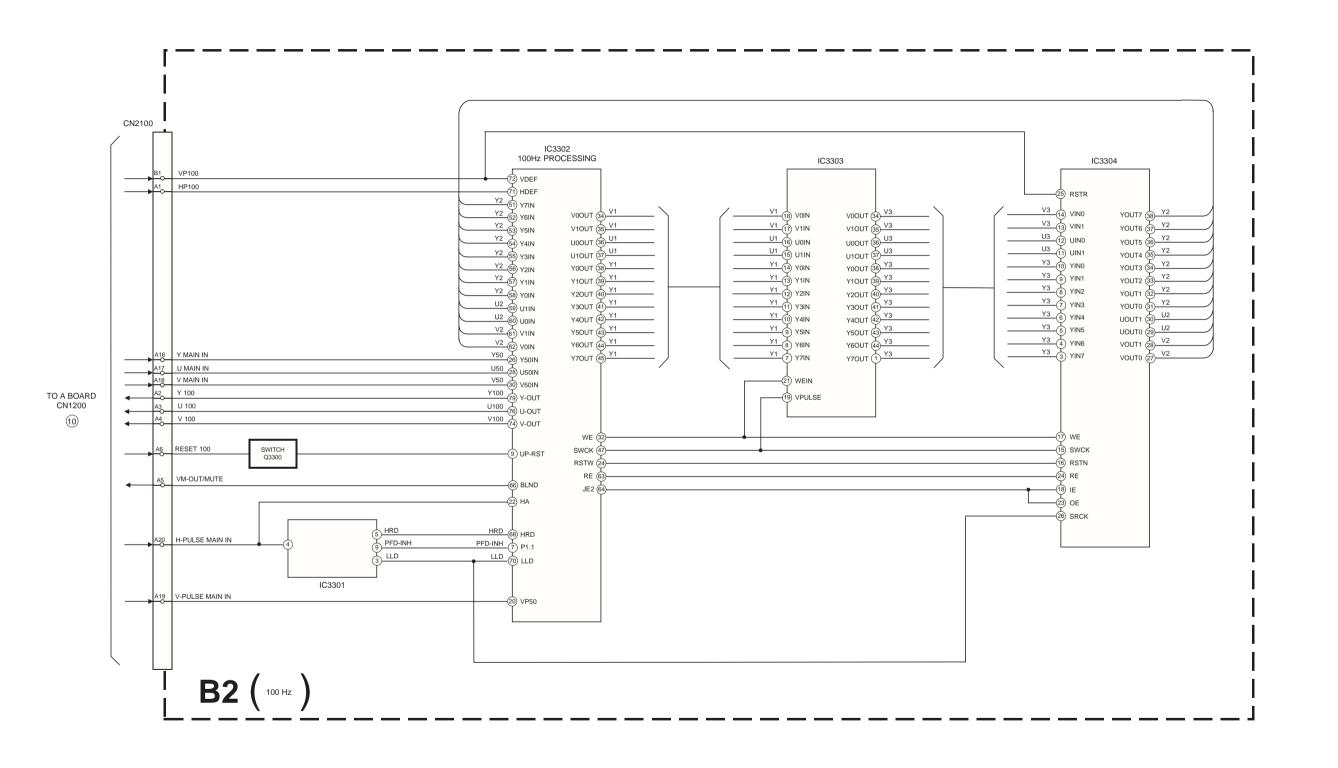
00	Switch back to normal mode - 'TT' mode off
01	Set picture maximum
02	Set picture minimum
03	Set speaker/headphone Volume to 30%
04	Set speaker/headphone Volume to 50%
05	Set speaker/headphone Volume to 65%
06	Set speaker/headphone Volume to 80%
07	Ageing Mode
08	Shipping Condition
09	Language Reset
10	No function
11	Sub picture adjustment
12	Sub colour adjustment
13	Display software version and TV set configuration
14	Production Info Display
15	Picture Rotation
16	Picture level 50%
17	Audio mute on
18	No function
19	Sub brightness adjustment
20	See 'TT10'
21	Destination A includes text settings, display TV status
22	Destination L includes text settings, display TV status
23	Destination E includes text settings, display TV status
24	Destination U includes text settings, display TV status
25	Destination D includes text settings, display TV status
26	Destination B includes text settings, display TV status
27	Destination K includes text settings, display TV status
28	Destination R includes text settings, display TV status
30	See 'TT10'
31	Geometry Adjustment 1
32	Geometry Adjustment 2
33	Error monitor
34	No function
35	CRT 4:3 < > 16:9 ; Display TV status
36	Line 23 detection switch
37	Velocity Modulation (VM) test
38	No function
39	No function
40	See 'TT10'

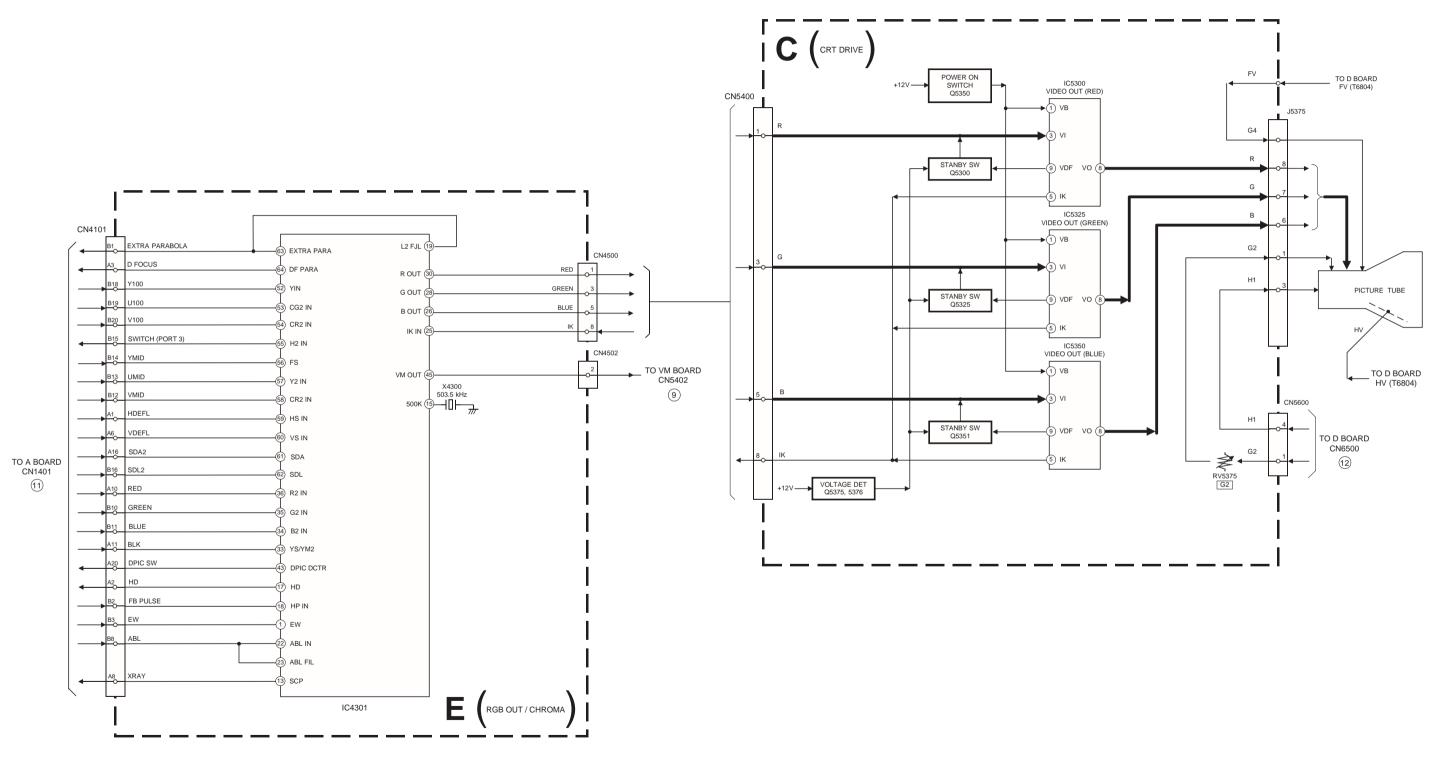
41	Screen mode check			
42	Re initialise geometry			
43	No function			
44	No function			
45	No function			
46	Reserved for dealer commander			
47	Re initialise NVM			
48	Set NVM as non virgin			
49	Set NVM as virgin			
50	See 'TT10'			
51	Set Dolby volume to 90%			
52	Dolby on left speaker only			
53	Dolby on right speaker only			
54	Dolby on left centre only			
55	Dolby on surround speaker only			
56				
- 59	No function			
60	See 'TT10'			
61	Service mode			
62	Production mode			
65	Reset error codes			
68	Ignore errors on			
69	Ignore errors off			
70	See 'TT10'			
71				
-	No function			
72	Class and second			
73 74	Clear programs			
-	No function			
79				
80	See 'TT10'			
81	PAP H adjustment left image			
82	PAP H adjustment right image			
83				
86	No function			
87	Personal ID reset			
88	Parental Lock off			
89	No function			
90	See 'TT10'			



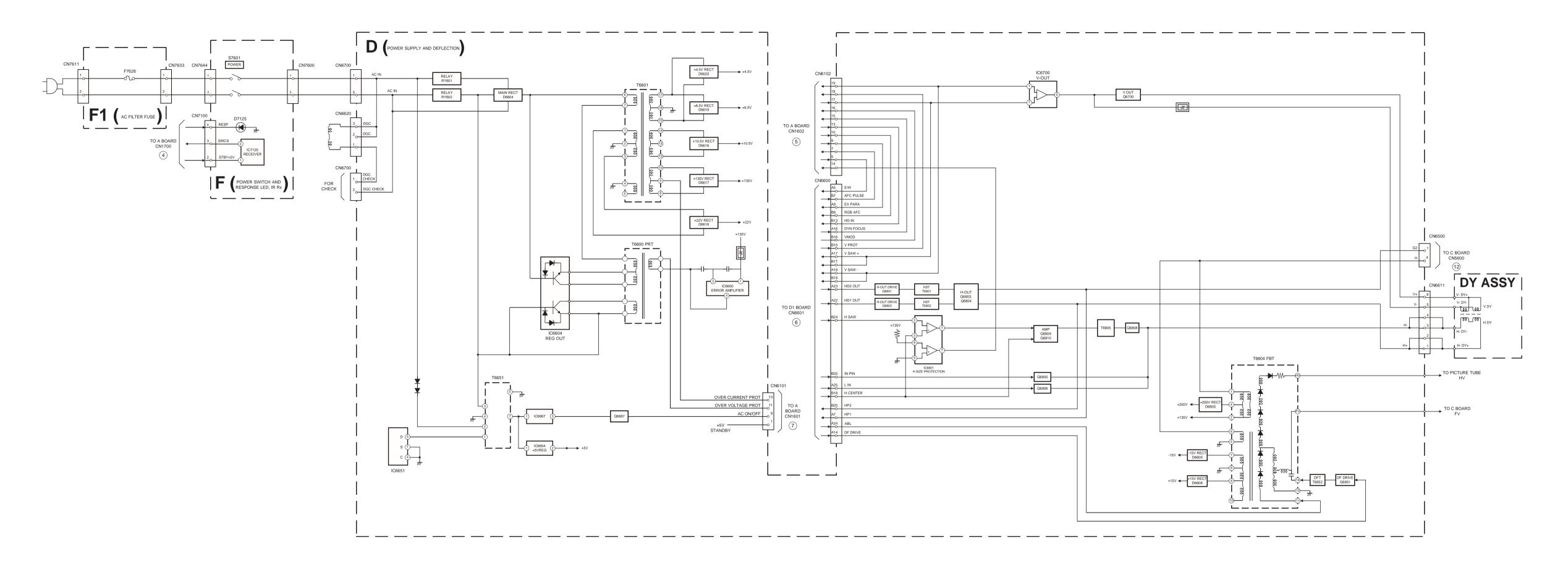


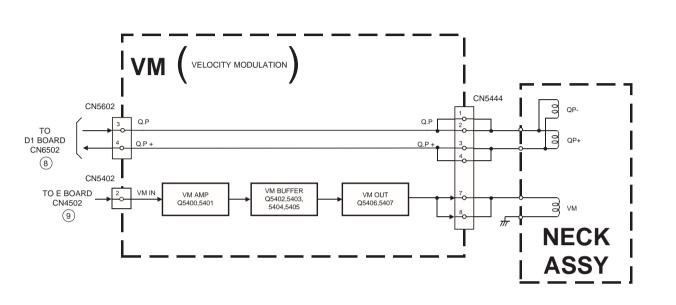




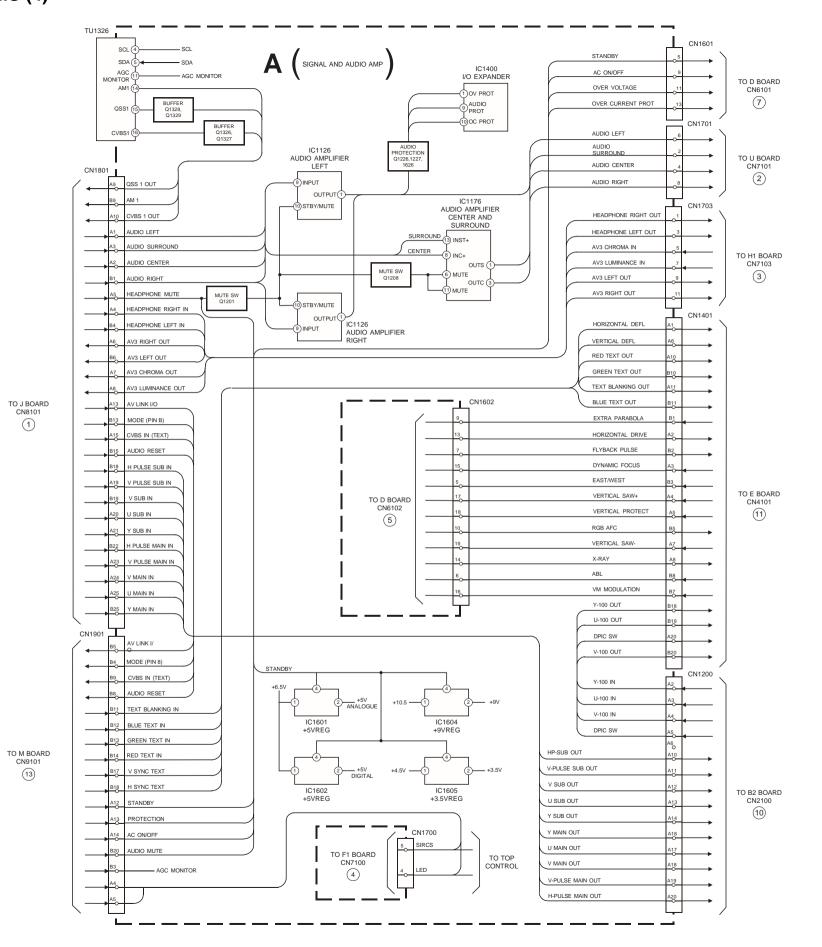


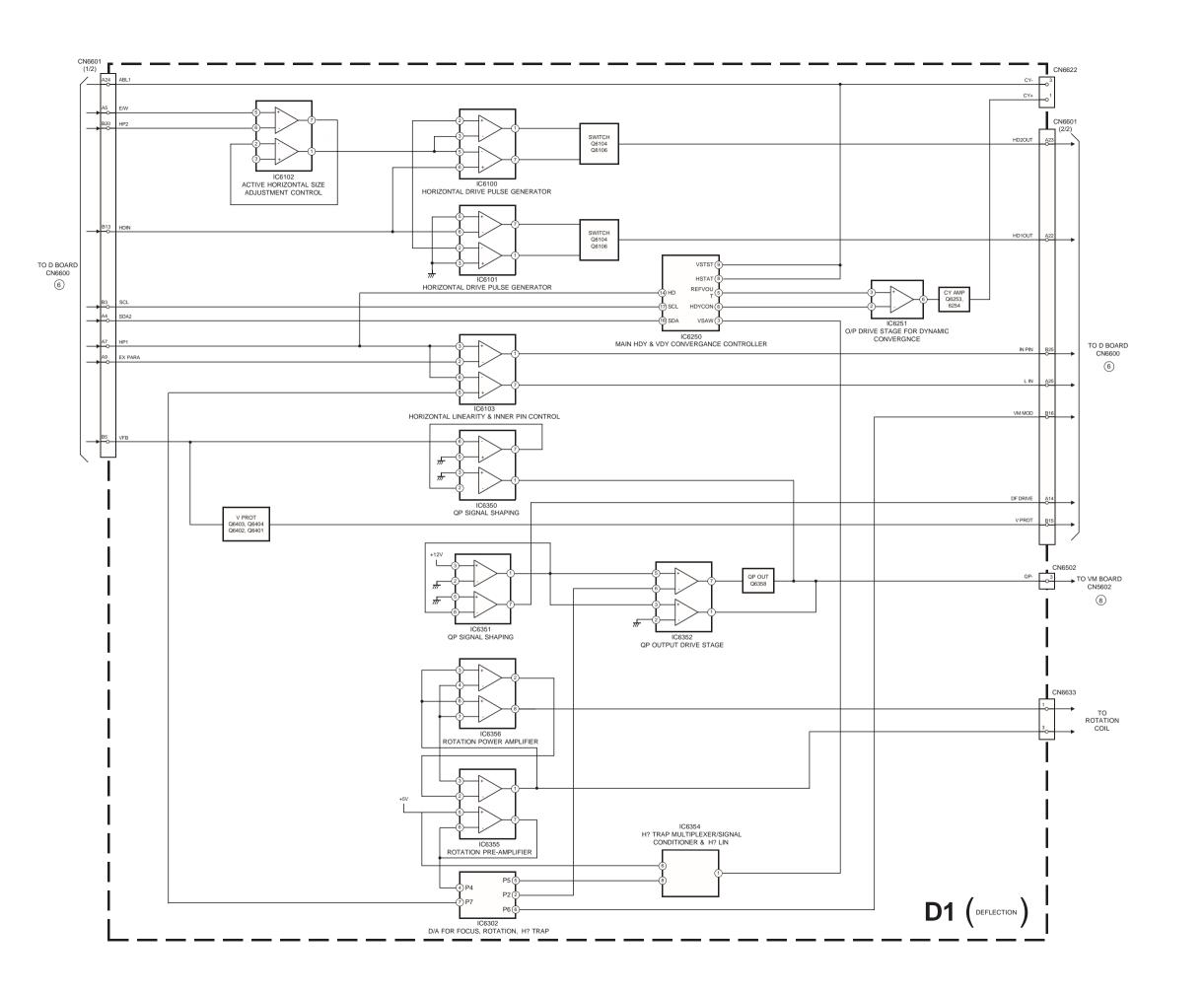
40 41

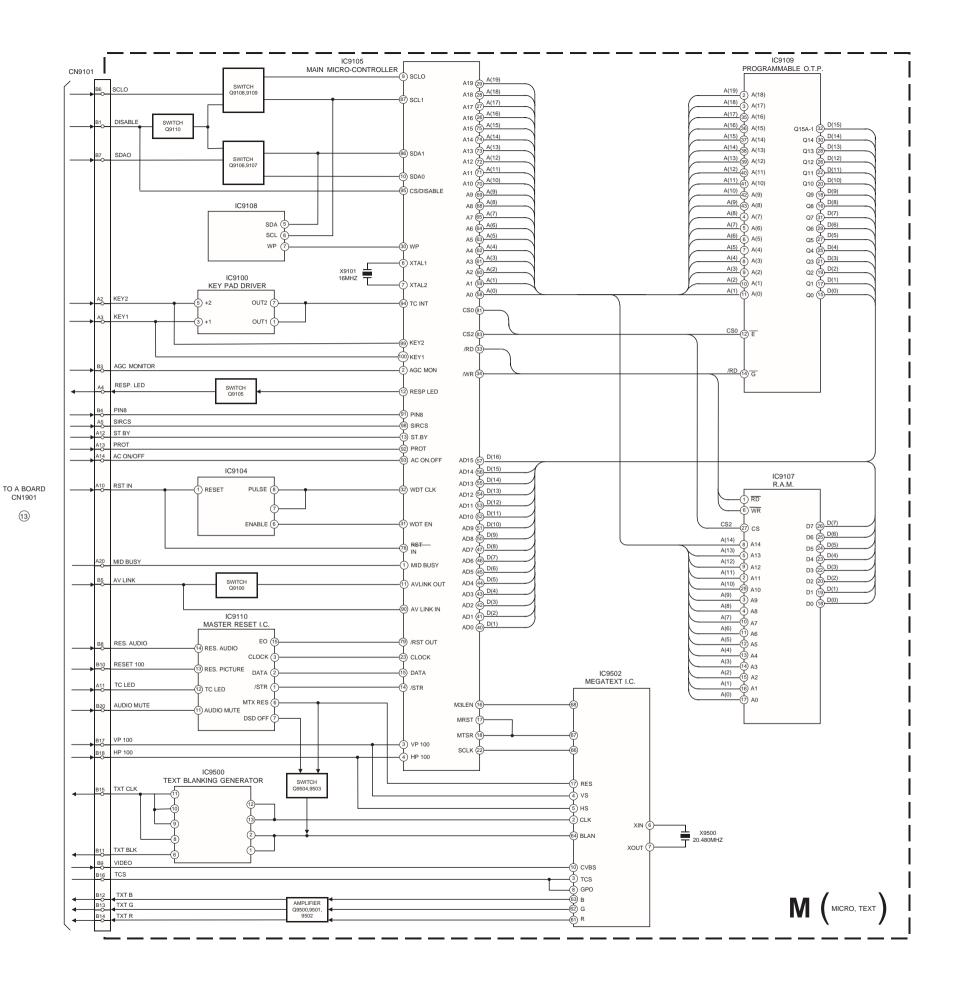




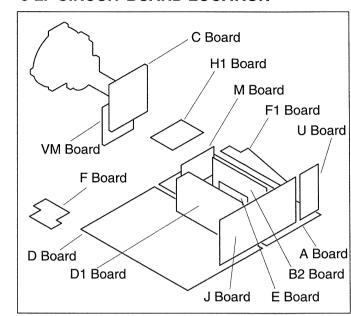
44







### 5-2. CIRCUIT BOARD LOCATION



## 5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

#### Note:

- All capacitors are in μF unless otherwise noted.
- pF: µµF 50WV or less are not indicated except for electrolytic types.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

#### Pitch : 5mm Electrical power rating : 1/4W

- Chip resistors are 1/10W
- All resistors are in ohms.
   k = 1000 ohms, M = 1000,000 ohms
- : nonflammable resistor.
- : fusible resistor.
- $\triangle$  : internal component.
- : panel designation or adjustment for repair.
- All variable and adjustable resistors have
- characteristic curve B, unless otherwise noted.All voltages are in Volts.
- Readings are taken with a 10Mohm digital mutimeter.
- Readings are taken with a color bar input signal.
- Voltage variations may be noted due to normal production tolerences.
- : B + bus.
- 🗯 : B bus.
- : RF signal path.
- $\perp$  : earth ground.
- : earth chassis.

#### Reference Information

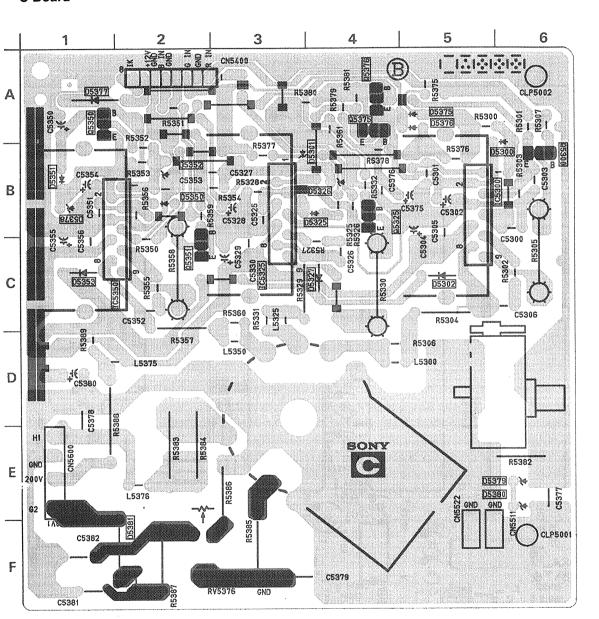
	RN	: METAL FILM					
	RC	: SOLID					
	FPRD	: NON FLAMMABLE CARBON : NON FLAMMABLE FUSIBLE					
	FUSE						
	RS	: NON FLAMMABLE METAL OXIDE					
	RB	: NON FLAMMABLE CEMENT					
	RW	: NON FLAMMABLE WIREWOUND					
	*	: ADJUSTMENT RESISTOR					
COIL	LF-8L	: MICRO INDUCTOR					
CAPACITOR	TA	: TANTALUM					
	PS	: STYROL					
	PP	: POLYPROPYLENE					
	PT	: MYLAR					
	MPS	: METALIZED POLYESTER					
	MPP	: METALIZED POLYPROPYLENE					
	ALB	: BIPOLAR					
	ALT	: HIGH TEMPERATURE					
	ALR	: HIGH RIPPLE					

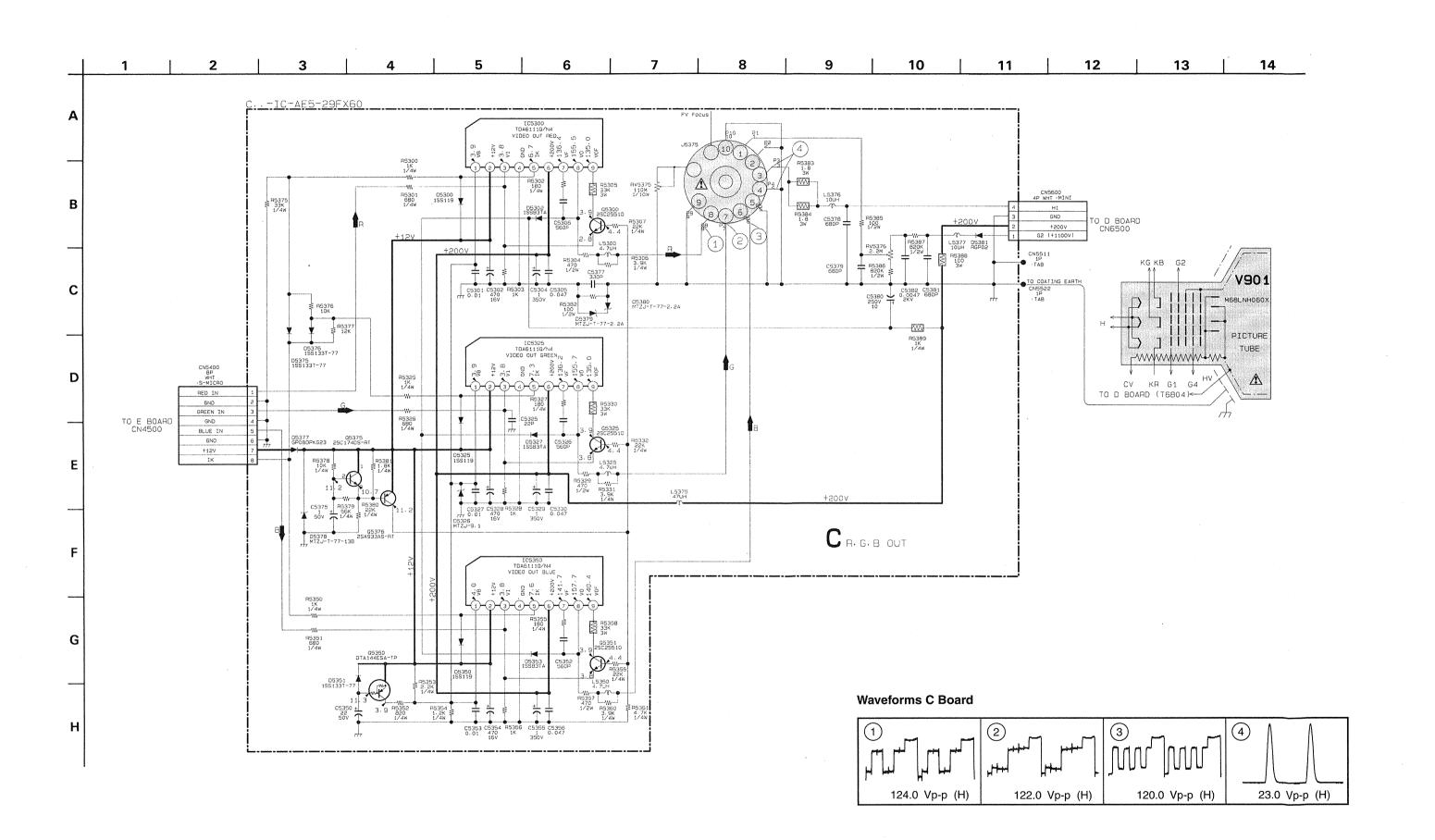
Note: The components identified by shading and marked ∆ are critical for safety. Replace only with the part numbers specified in the parts list.

Note: Les composants identifiés par une trame et par une marque \( \Delta \) sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié. specified.

## C [CRT DRIVE]

## C Board





## C BOARD

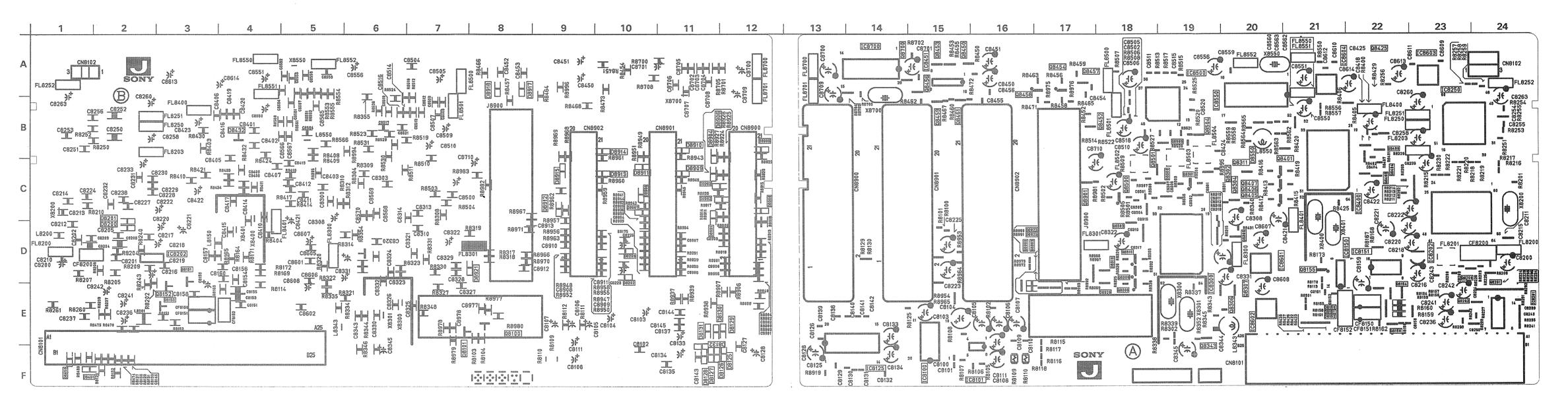
	IC
IC5300	B - 6
IC5325	C - 3
IC5350	C - 1
TRAN	SISTOR
Q5300	B-6
Q5325	B - 5
Q5350	A - 1
Q5351	C - 2
Q5375	A - 4
Q5376	A - 4
DI	ODE
D5300	B - 6
D5302	C - 5
D5325	B - 4
D5326	B - 4
D5327	C - 4
D5350	B - 2
D5351	B - 1
D5353	C - 1
D5375	A - 5
D5376	A - 5
D5377	A - 1
D5378	B - 1
D5379	E - 5
D5380	E - 5
D5381	F - 2

## J BOARD

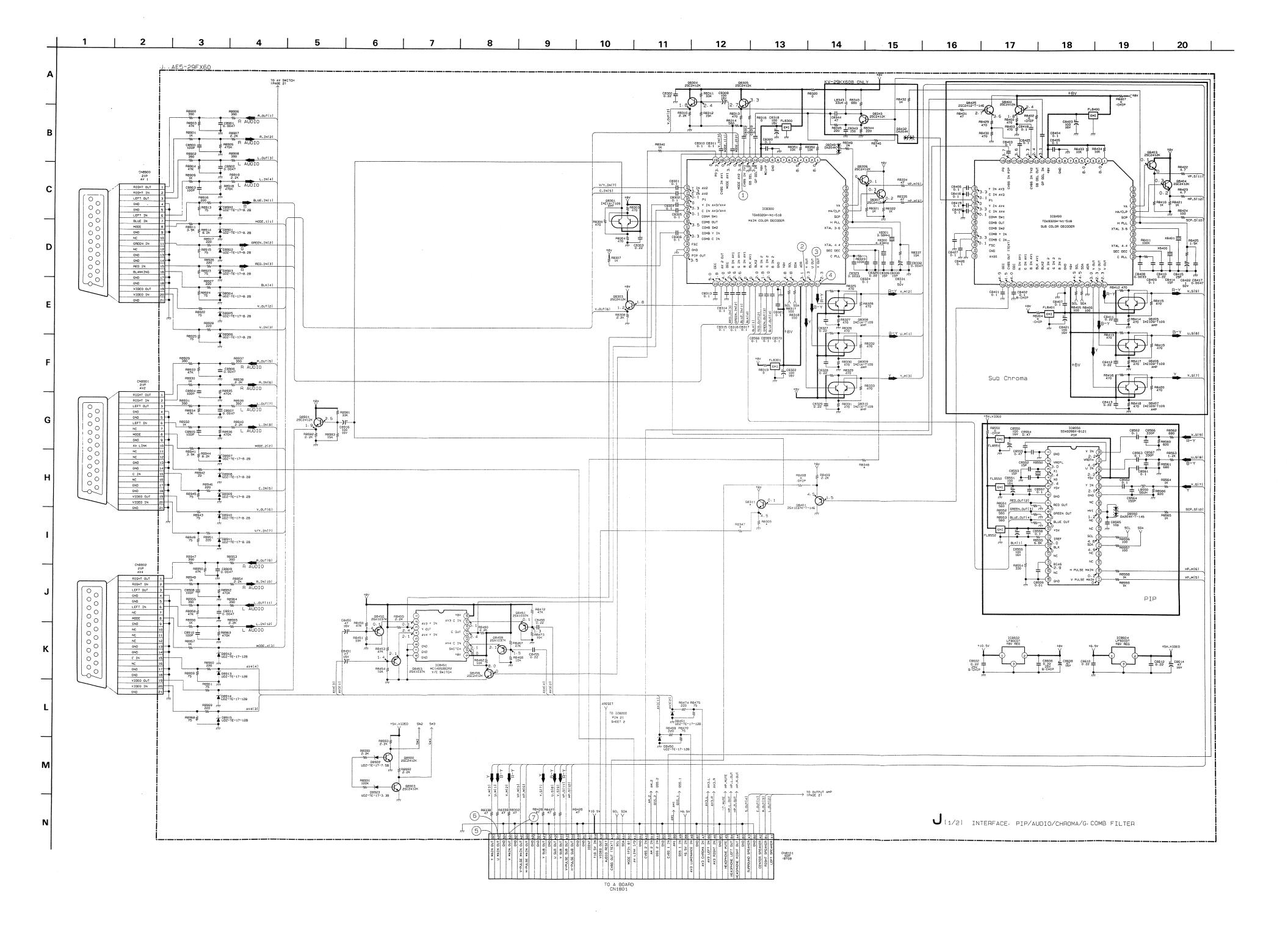
	IC ·	Q8461	B - 15
IC8100	F - 15	Q8900	D - 16
IC8101	F - 15	Q8901	C - 17
IC8125	F - 14	Q8903	D - 16
IC8151	D - 22	DI	ODE
IC8201	E - 24	D8125	F - 12
IC8202	D - 23	D8126	F - 12
IC8300	E - 19	D8127	F - 11
IC8400	C - 22	D8128	F - 11
IC8451	A - 15	D8129	E - 12
IC8550	B - 19	D8130	E - 12
IC8601	D - 20	D8131	E - 11
IC8602	E - 20	D8200	D - 2
IC8603	A - 23	D8201	D - 2
IC8604	A - 21	D8202	E - 10
TRANSIS	TOR	D8203	D - 10
Q8200	E - 23	D8432	B - 4
Q8201	E - 24	D8450	F - 1
Q8202	E - 23	D8451	F - 1
Q8303	C - 19	D8550	C - 20
Q8304	C - 20	D8900	C - 12
Q8305	D - 20	D8902	C - 11
Q8307	D - 18	D8903	C - 11
Q8308	E - 18	D8904	B - 11
Q8309	E - 18	D8905	B - 12
Q8310	D - 18	D8906	B - 12
Q8311	C - 20	D8907	C - 10
Q8343	F - 19	D8908	C - 10
Q8400	B - 22	D8909	C - 11
Q8401	C - 20	D8910	B - 11
Q8403	C - 22	D8911	C - 10
Q8404	C - 22	D8912	C - 9
Q8405	C - 20	D8913	C - 10
Q8406	C - 20	D8914	B - 10
Q8407	C - 20	D8915	C - 9
Q8425	A - 22	D8922	D - 16
Q8450	A - 15	D8923	D - 16
Q8453	A - 15		
Q8456	A - 15		
Q8459	B - 15		

INTERFACE / PIP / AUDIO / CHROMA

J Board <Conductor Side>



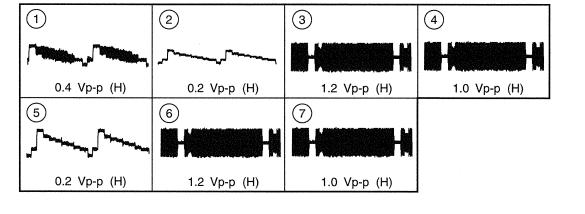
58

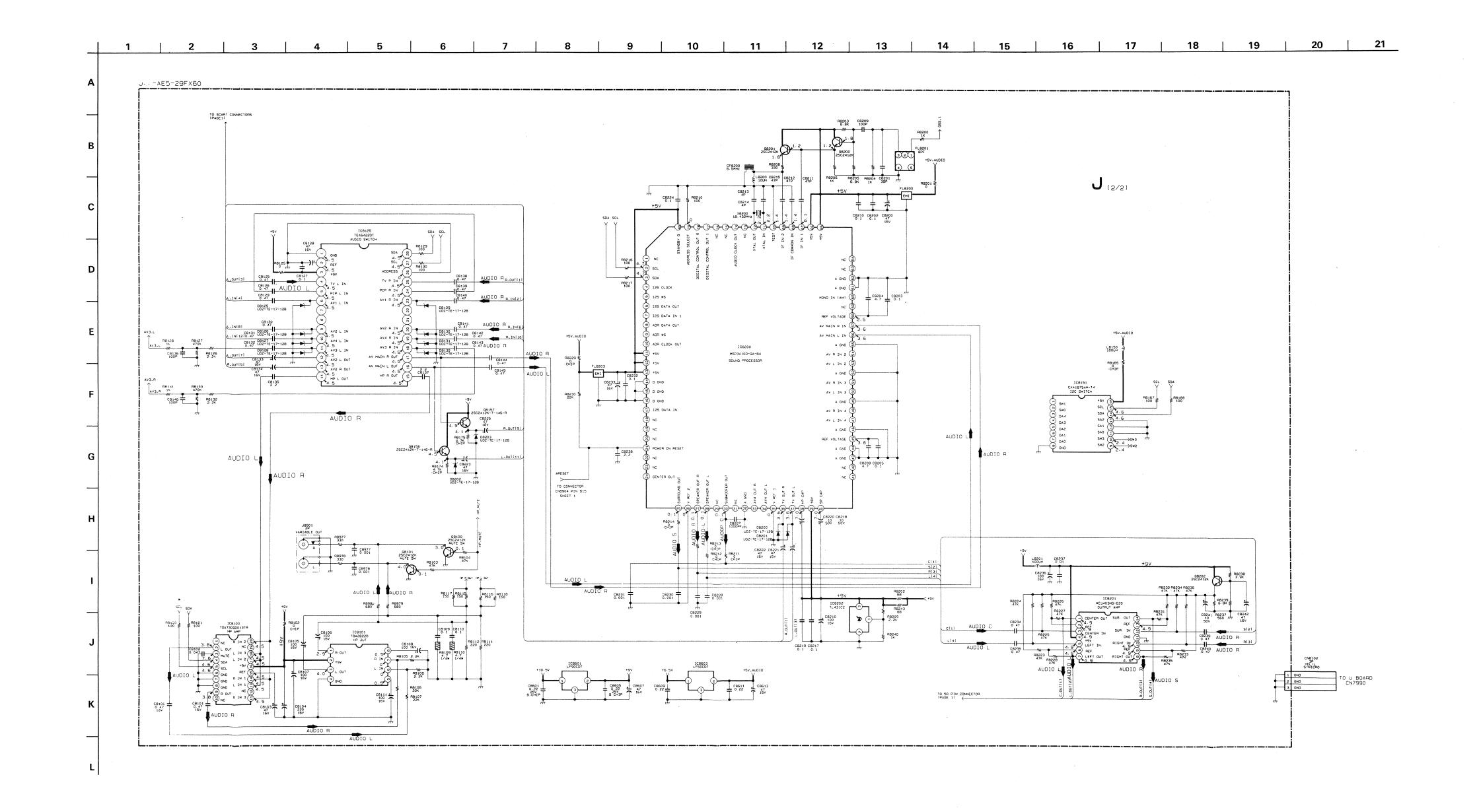


#### J BOARD \* MARK

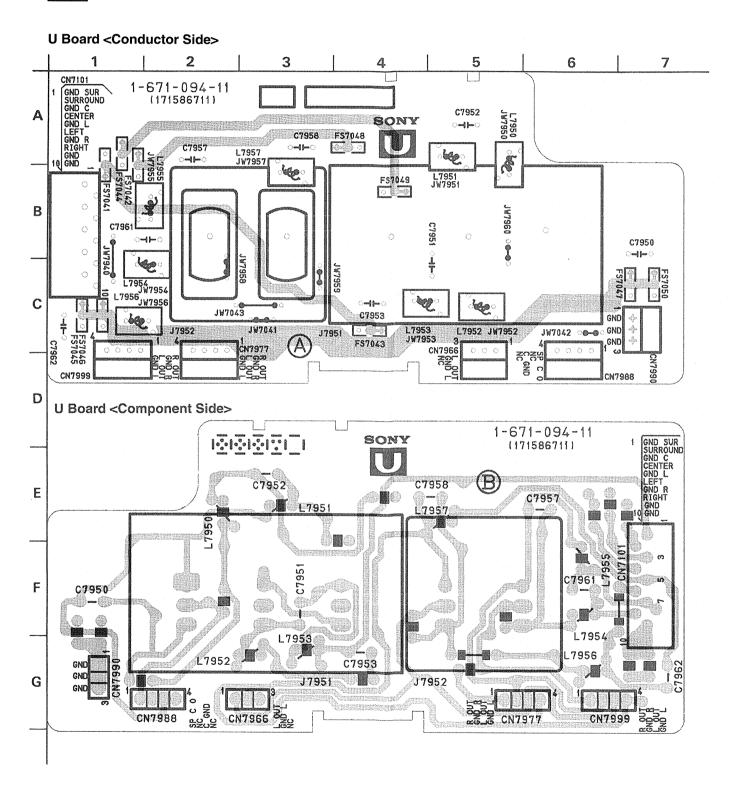
Ref	29FX60A	29FX60B	29FX60D	29FX60E	29FX60U	
Q8311	-	2SC2412K-T- 146-R	-	-	-	
R8346	SHORT 0	-	SHORT 0	SHORT 0	SHORT 0	
R8347	-	100		-	-	
R8348	-	SHORT 0	-	-	-	

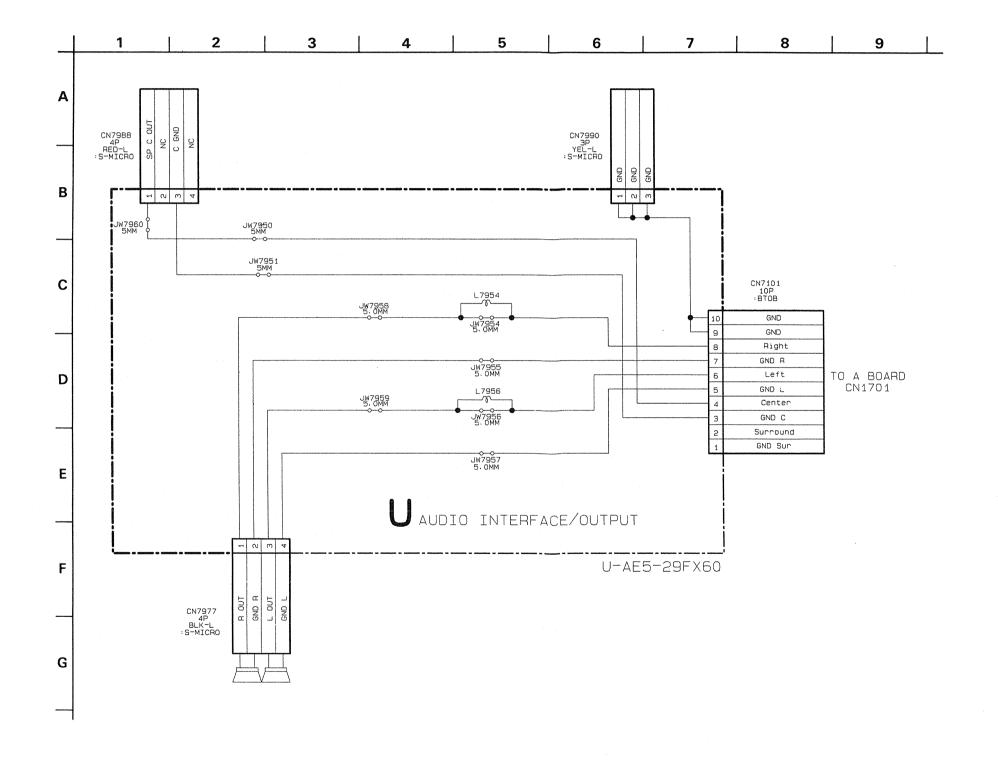
## Waveforms J1(1/2) Board





## [AUDIO INTERFACE / OUTPUT]





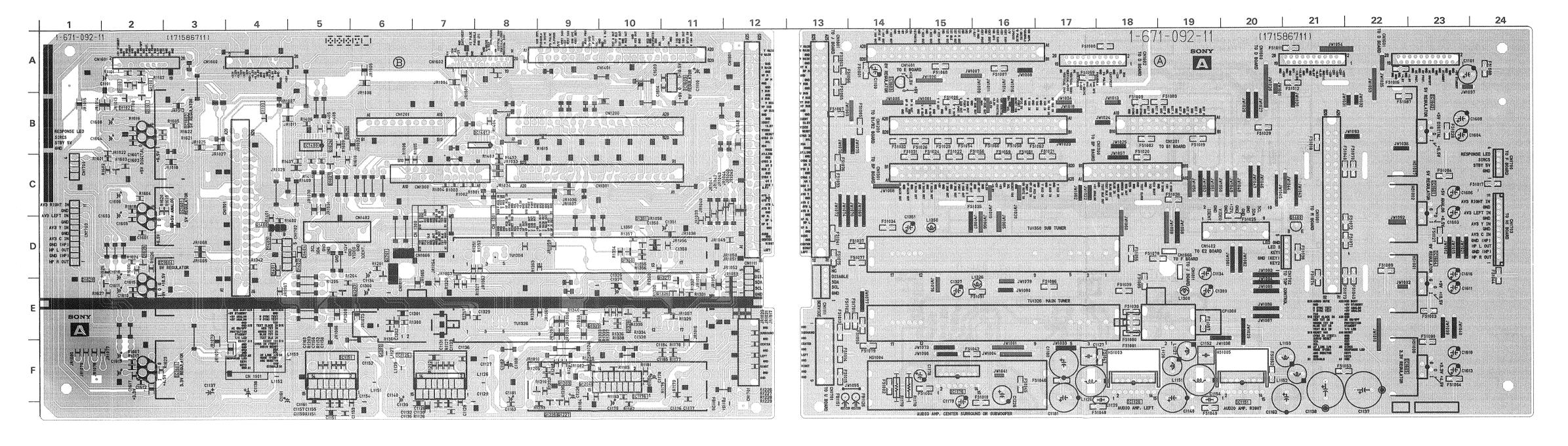


SIGNAL AND AUDIO AMP

### A BOARD

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	IC	D	IODE
IC1126	F-6	D1100	A - 2
IC1151	F - 5	D1101	B - 2
IC1176	G - 15	D1102	B - 2
IC1400	B - 5	D1103	B - 4
IC1601	C - 3	D1401	E - 4
IC1602	B - 3	D1402	D - 5
IC1603	A - 11	D1403	D - 4
IC1604	D - 3	D1404	D - 5
IC1605	F-3	D1626	B - 6
TRAN	SISTOR	D1627	C - 5
Q1100	A - 2	D1629	E - 1
Q1201	D - 6		
Q1202	E - 6		
Q1203	F-9		
Q1204	F - 9		
Q1226	G - 9		
Q1227	G - 9		
Q1326	E - 11		
Q1327	E - 11		
Q1328	E - 10		
Q1329	E - 10		
Q1400	D - 4		
Q1626	B - 5		

## A Board <Conductor Side>

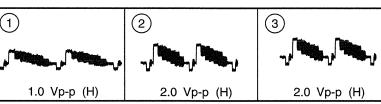


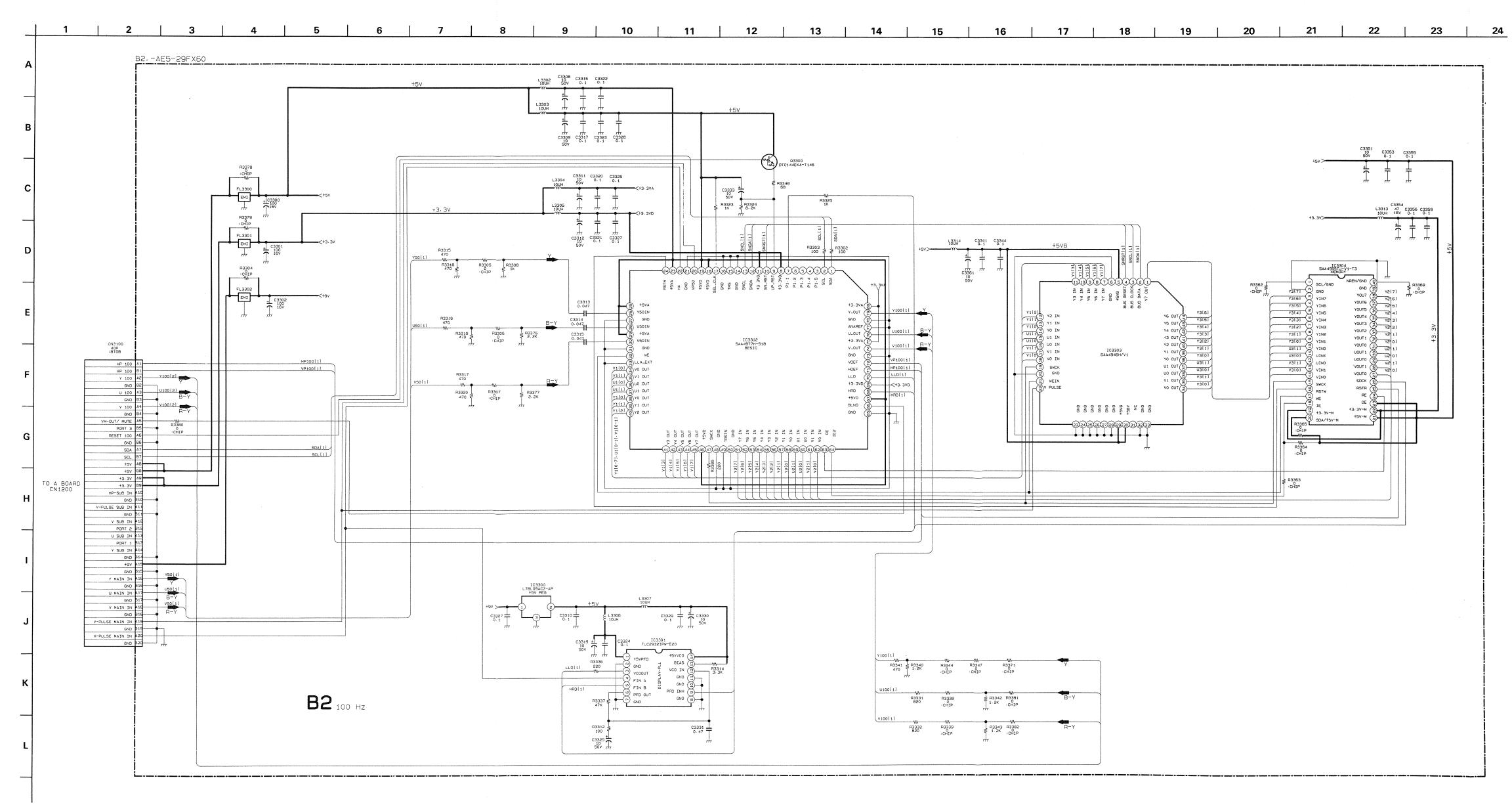
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 06 [3]
06 [13]
06 [13]
06 [13]
06 [13]
06 [13]
06 [13] +33v 6ND +5v AM 1 0SS 1 Subwoofer/Dolby BPE[1] WBP[1] R1001 CNTP R1002 CNTP R1002 CNTP R1003 CN D1403 UDZ-TE-17-6.28 BPE(9) MBP[7] -CHIP 896[8] W-M89[8] R1006 0 0 -CHIP A signal & audio amp

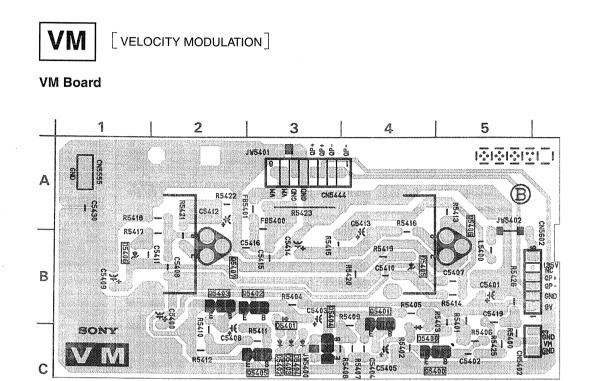
## A BOARD \* MARK

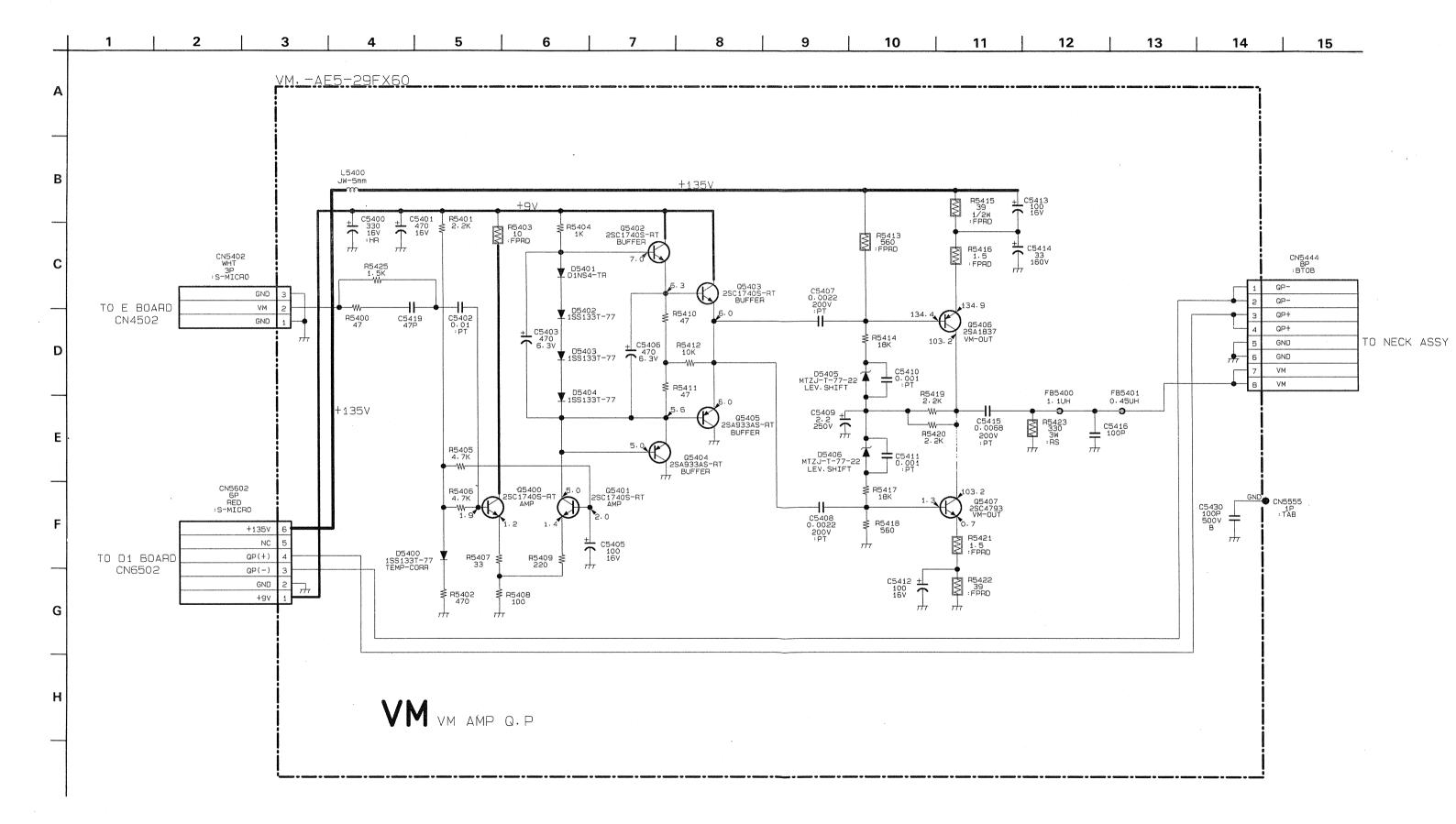
Ref	29FX60A	29FX60B	29FX60D	29FX60E	29FX60U
TU1326	TUNER/VIF	TUNER/VIF	TUNER/VIF	TUNER/VIF	TUNER/VIF
	(AEP)	(FR)	(AEP)	(AEP)	(UK)

#### Waveforms A Board



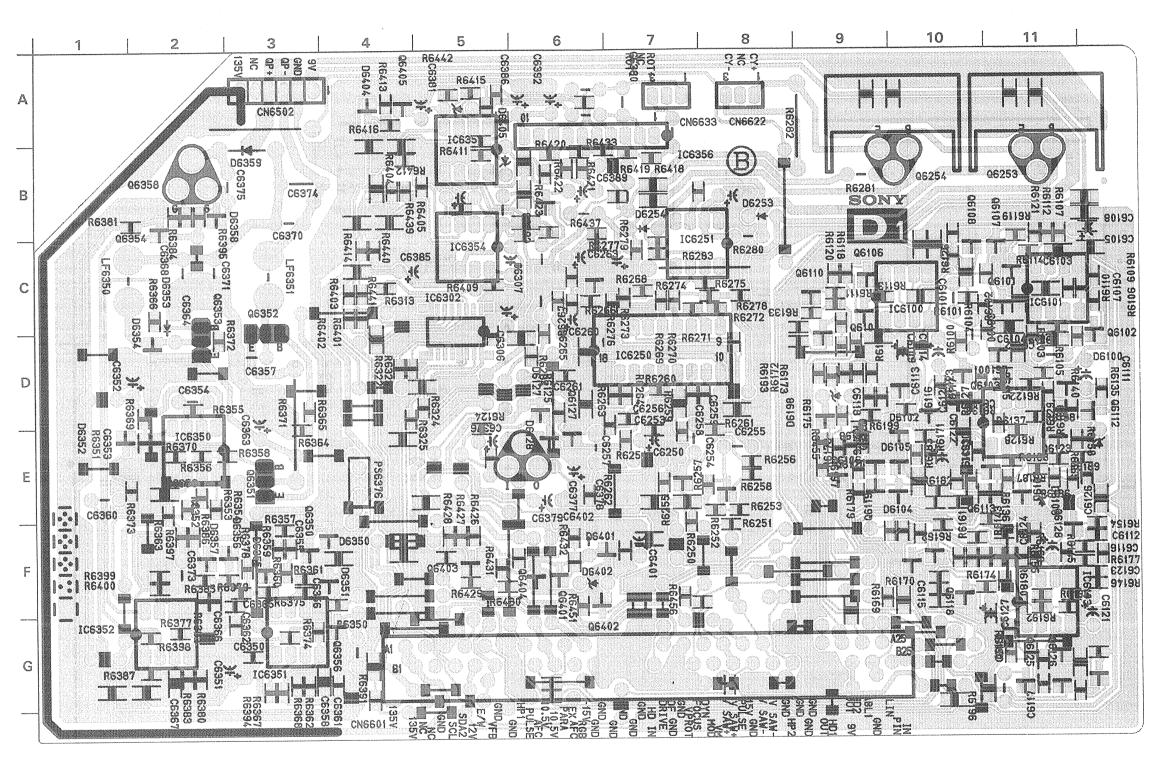






D1 [DEFLECTION]

## D1 Board



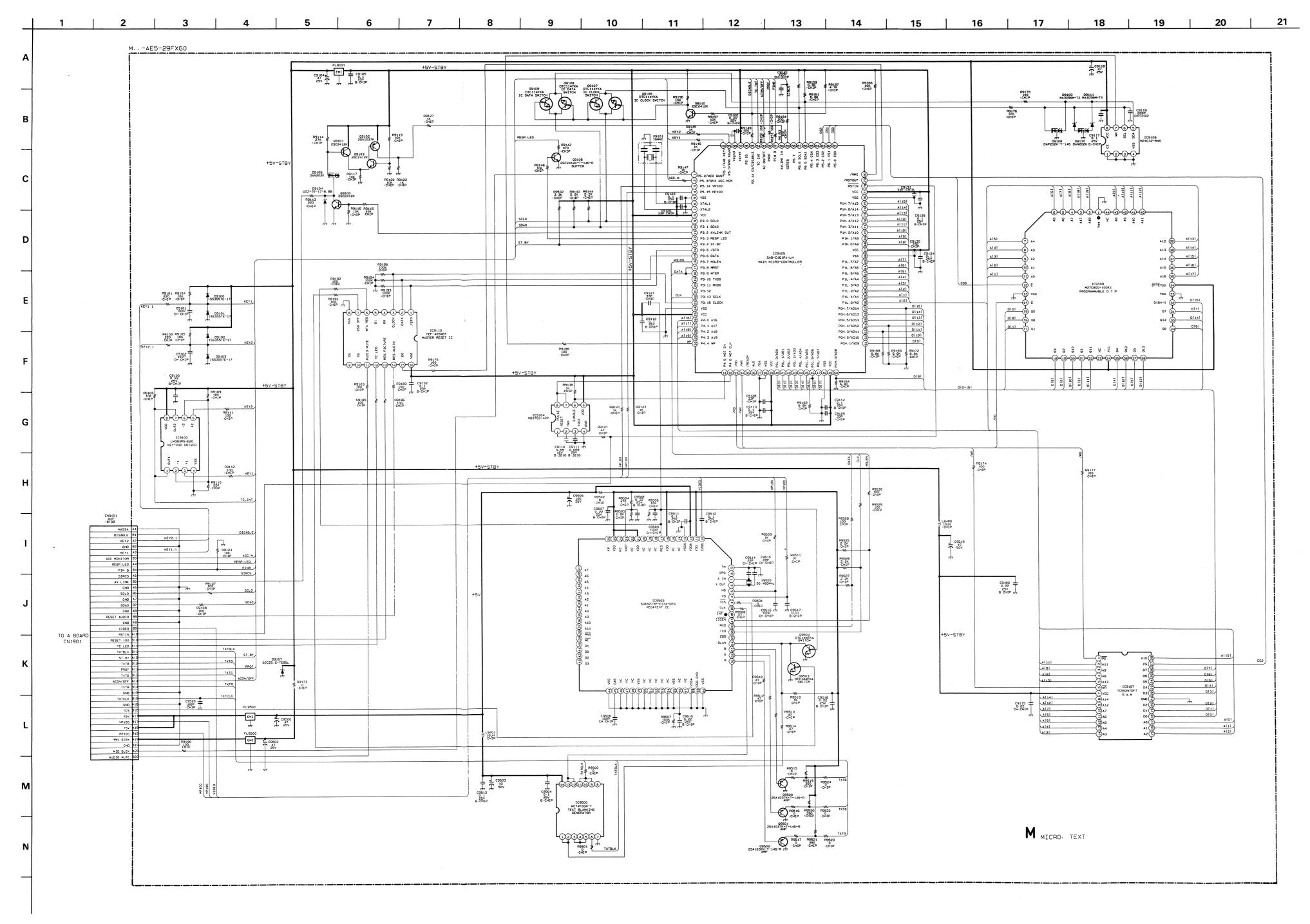
### D1 BOARD

	IC	Q6350	E - 8
IC6100	C-9	Q6351	E-3
IC6101	C - 12	Q6352	D - 3
IC6102	D - 11	Q6353	C - 2
IC6103	G - 12	Q6354	C - 2
IC6250		Q6356	G - 4
IC6251	C - 8	Q6258	B - 2
IC6302	D - 5	Q6401	F-7
IC6350		Q6402	G - 6
IC6351	G - 3	Q6403	F-5
IC6352	G - 1	Q6404	G - 6
IC6353		Q6455	C - 8
IC6354	C - 5	Q6465	B - 5
IC6355	A - 5	DI	ODE
IC6356	A - 6	D6100	D - 12
TRAI	NSISTOR	D6101	E - 12
Q6100	D - 11	D6102	D - 10
Q6101	C - 11	D6104	E-9
Q6102	C - 12	D6105	E - 9
Q6104	C - 9	D6106	E-8
Q6105	B - 11	D6108	F - 11
Q6106	C - 9	D6127	D - 6
Q6107	E - 11	D6128	E - 6
Q6108	B - 10	D6129	D - 8
Q6110	C - 8	D6198	D - 8
Q6118	G - 10	D6253	B - 8
Q6119	E - 8	D6254	B - 7
Q6120	E - 9	D6350	F - 4
Q6122	E - 9	D6351	F - 4
Q6123	E - 12	D6352	E - 1
Q6125	H - 11	D6353	C - 2
Q6126	H - 11	D6354	D - 2
Q6127	E - 6	D6355	E - 3
Q6128	F - 12	D6358	B - 2
Q6130	H - 11	D6359	B - 3
Q6131	G - 12	D6401	F - 7
Q6201	F - 10	D6402	F-6
Q6202	F - 10	D6403	A - 5
Q6250	E - 8	D6404	A - 4
Q6251	E - 8	D6405	A - 5
Q6252	B - 10		
Q6253	B - 11		
Q6254	C - 2	_	

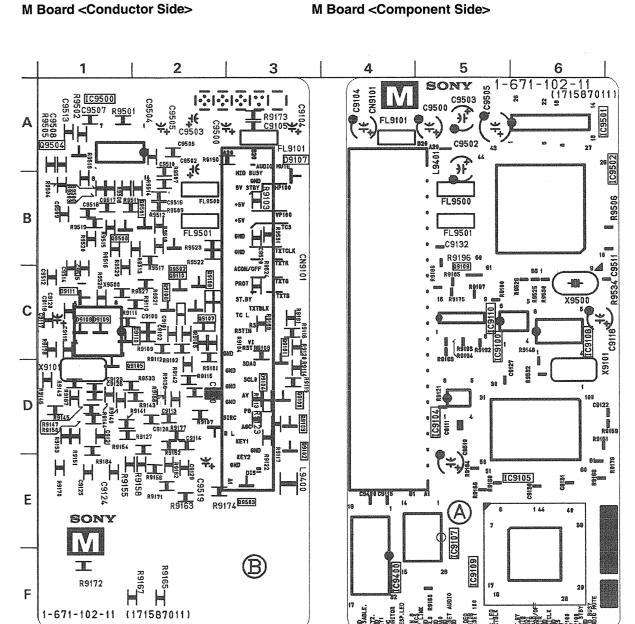
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 TO VM BOARD CN5602 CN6633 3P BLK S-MICRO D1.-AE5-29FX60 R6363 R6369 10K ₹ 270K ₹ :RN-CP :RN-CP D5404 DAN202K R6355 B20K RN-CP C6354 0.033 MPS D6352 R6373 DAN202K ₹18K :RN-CP IC6355 LM35BN ROTATION PRE-AMPLIFIER +135V C6306 C6307 10 0.01 50v :CHIP 95438 2.2K C6351 47 50V R6357 C6355 R6359 2.2K ₹ 100P ₹ 100K :CHIP CH:CHIP CHIP C6350 0.1 25V B:CHIP TO D BOARD CN6600 C6377 C6378 22 0.1 25V B.CHIP 86279 R6281 R6282 2.2K 0.47 100 100 2W 05356 2SC2412K BUFFER C6110 47K 47K 1RN-CP C6119 0.01 B:CHIP C6108 + C6105 C6114 + T0 C6105 06113 R6169 100X 2SC2412X R8N-CP R6161 6.88CP R8160 8.24X 77.CHIP D1 DEFLECTION D5101 R6165 100K M7ZJ-4.78 RN-CP R6134 C61111 ± 47 50V ↑ R6111 R6113 R6118 R6120 2.2K 10M 10K 2.2K 1.CHIP 10H 10K 10K 3.1 A 2 06104 25C2412K 0.2 66106 25C2412K R6141 R6170 R6170 R6170 R6170 R6180 R6170 R6170 R6180 R6170 P6132 330 P ₹ CHIP R6133 330 CHIP 25.1 06110 2581037K R6131 330 330 330 300 20126 330 300 3012012 2SA1037K AMP R6110 22K RN-CP

95

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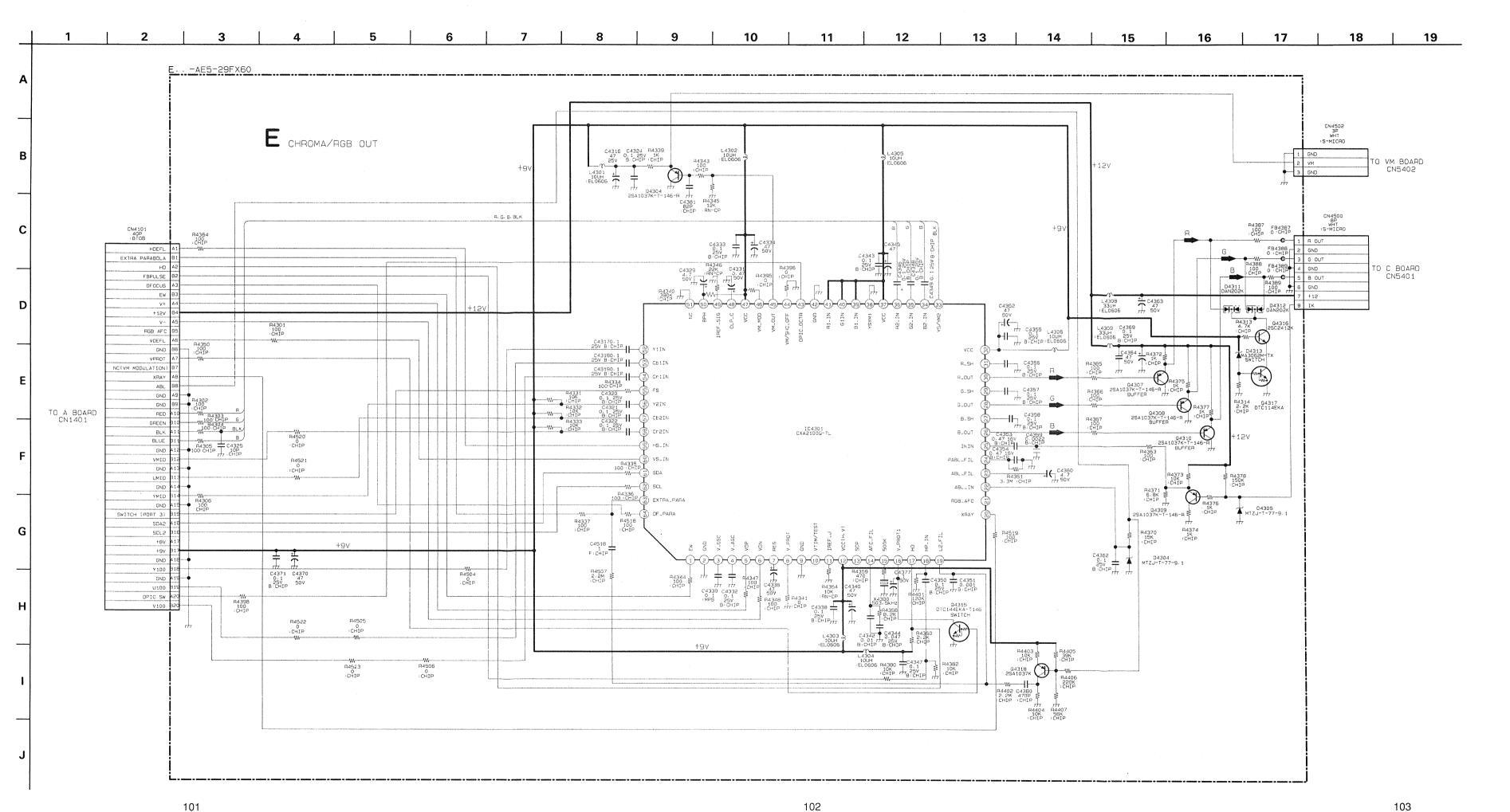
MICRO, TEXT

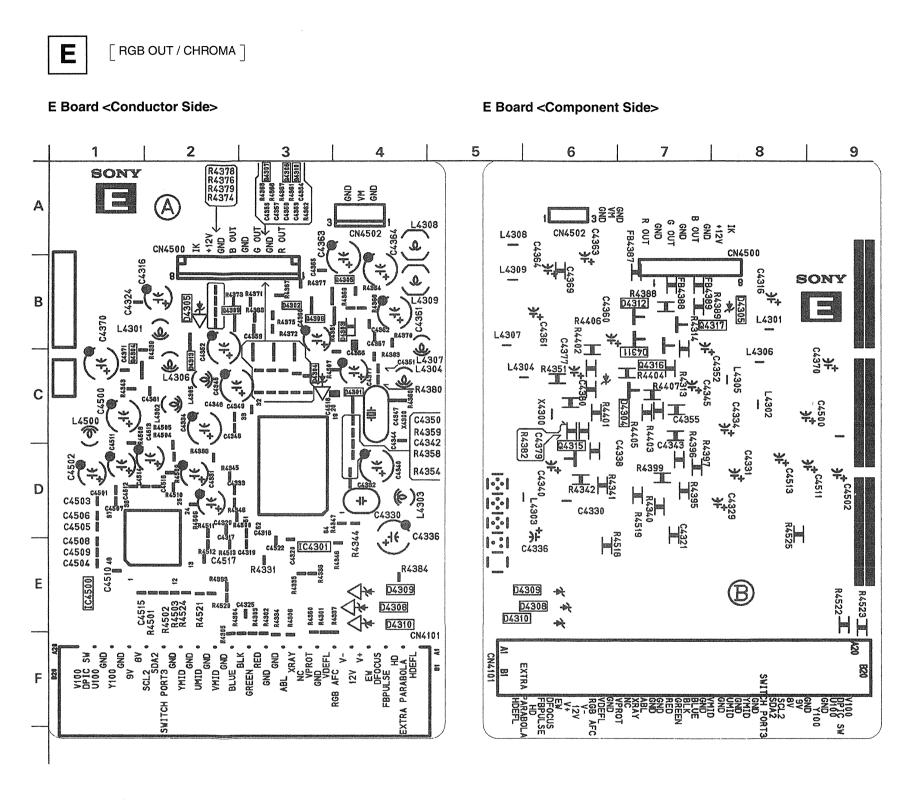


D9107 A - 3
D9108 C - 1

D9109 C - 1 D9110 C - 2

D9111 C-1

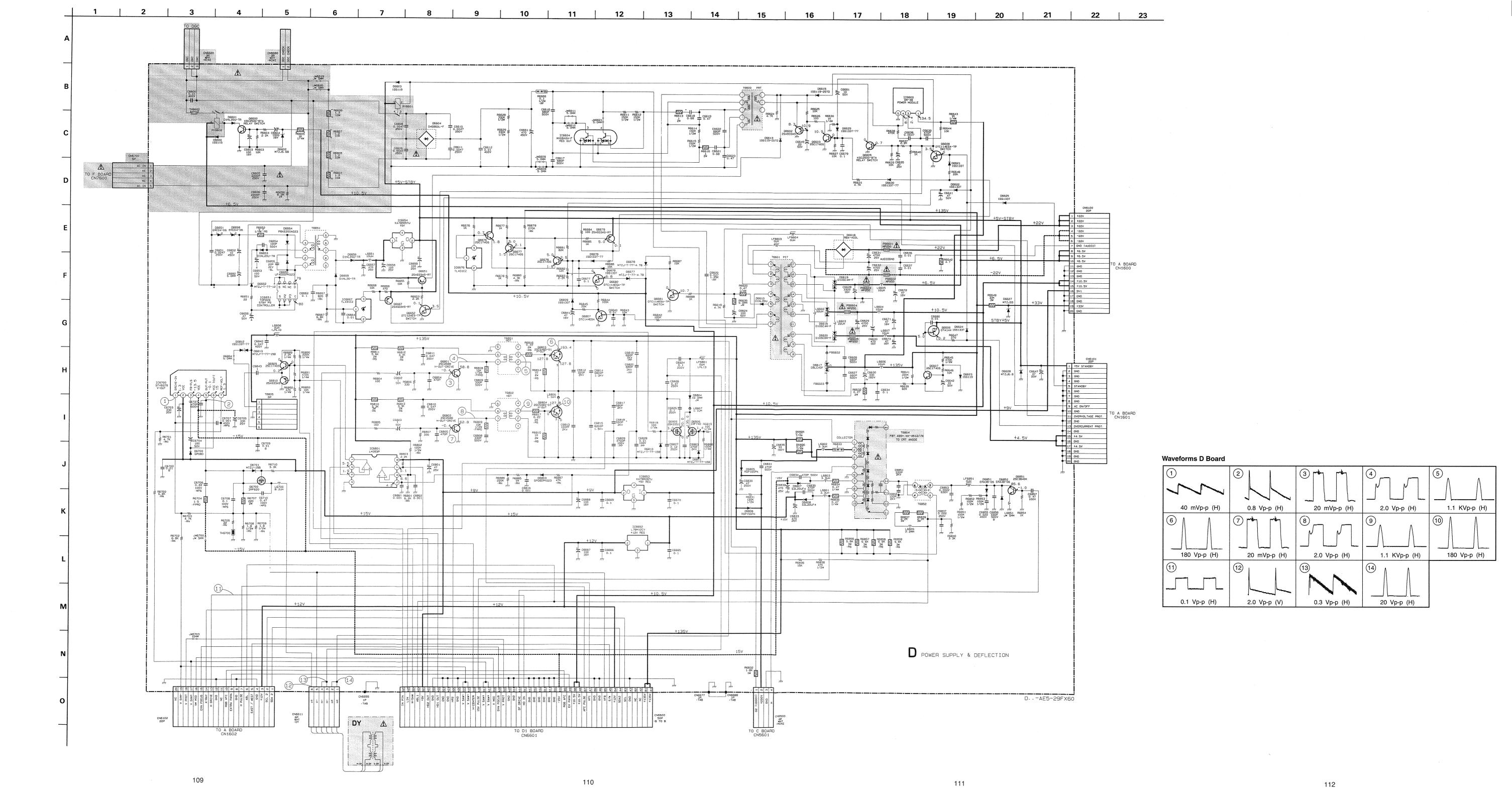


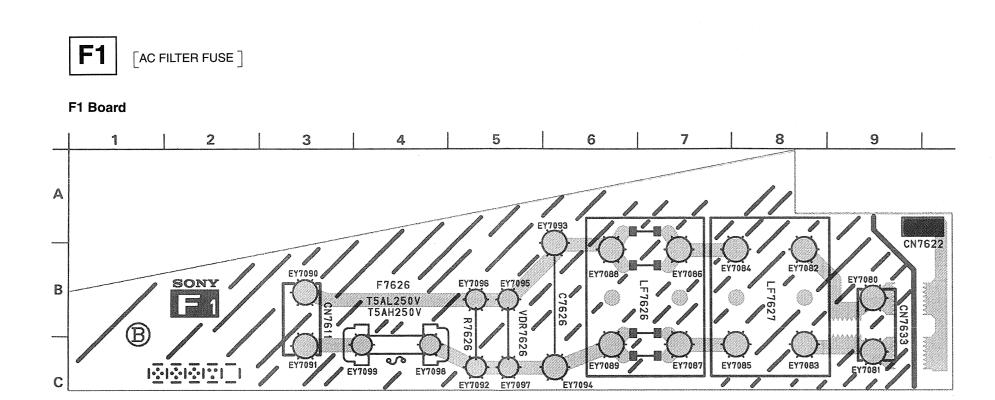


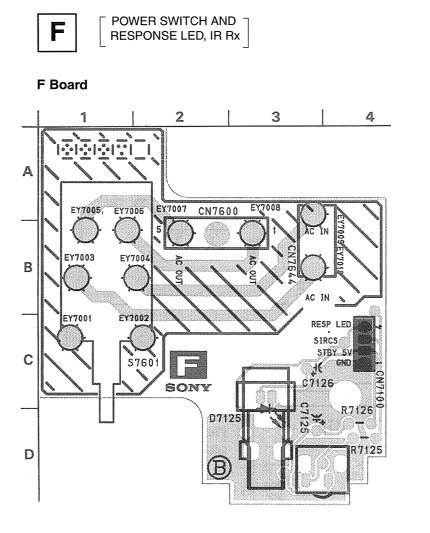
## D BOARD

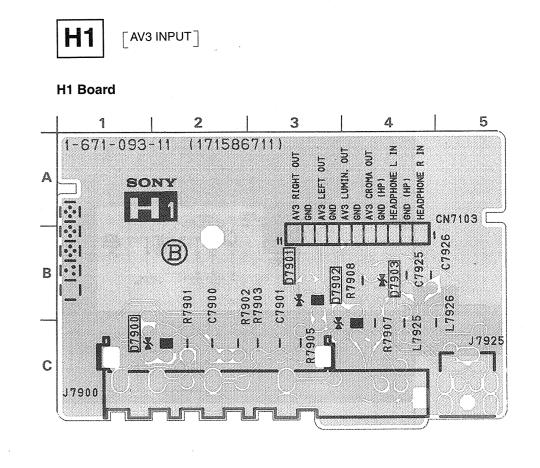
IC	D6613	D - 12
IC6600 F - 9	D6615	C - 12
IC6604 H - 11	D6616	D-9
IC6651 G - 13	D6617	D-8
IC6652 A - 7	D6618	B - 11
IC6653 A - 9	D6619	B-8
IC6654 D - 12	D6620	B-9
IC6667 E - 14	D6621	B - 12
IC6700 D - 6	D6623	E-8
IC6801 A - 3	D6624	B - 13
TRANSISTOR	D6625	A - 12
Q6600 J - 6	D6627	A - 10
Q6602 G - 9	D6628	A - 13
Q6603 G - 8	D6629	B - 12
Q6605 D - 12	D6651	I - 13
Q6606 A - 13	D6652	H - 13
Q6607 E - 8	D6653	H - 13
Q6651 E - 13	D6654	G - 12
Q6652 E - 14	D6655	G - 13
Q6667 E - 13	D6656	E - 13
Q6676 D - 13	D6658	H - 13
Q6677 D - 14	D6659	F - 13
Q6678 D - 13	D6676	C - 13
Q6679 C - 13	D6677	C - 13
Q6680 C - 13	D6678	C - 13
Q6681 D - 13	D6679	D - 13
Q6700 C - 6	D6681	E - 13
Q6801 H - 2	D6700	C - 5
Q6802 E - 6	D6701	H - 2
Q6803 F - 2	D6803	B-3
Q6804 D - 5	D6804	C-3
Q6805 E - 13	D6805	G-3
Q6806 D - 3	D6806	H-3
Q6807 B - 13	D6807	G - 7
Q6809 A - 2	D6808	G - 8
Q6810 A - 2	D6809	B - 13
Q6851 I - 2	D6811	D-3
DIODE	D6812	B-2
D6600 J - 7	D6813	B-2
D6601 J-7	D6851	H - 2
D6602 J - 6	D6852	1 - 2
D6603 D - 12		
D6604 I - 11		
D6610 C - 12		

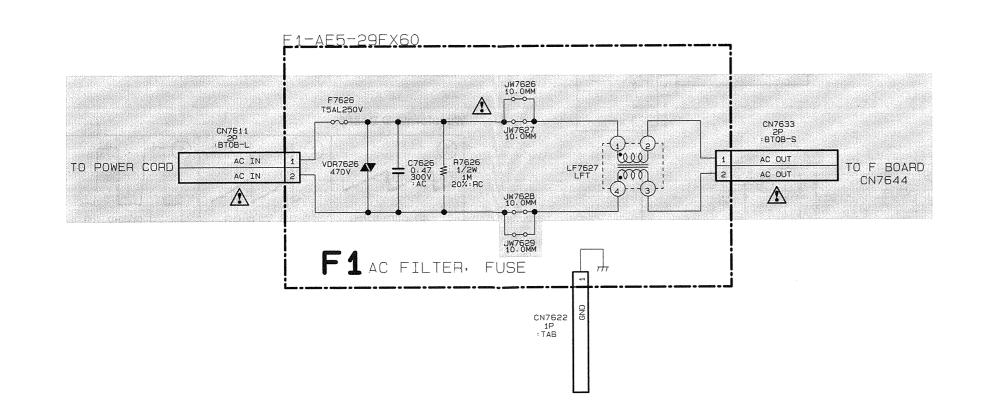
[POWER SUPPLY AND DEFLECTION] BONY

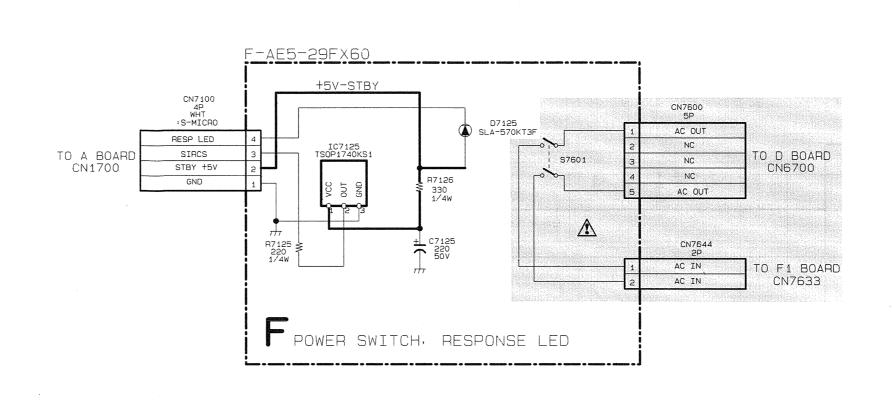


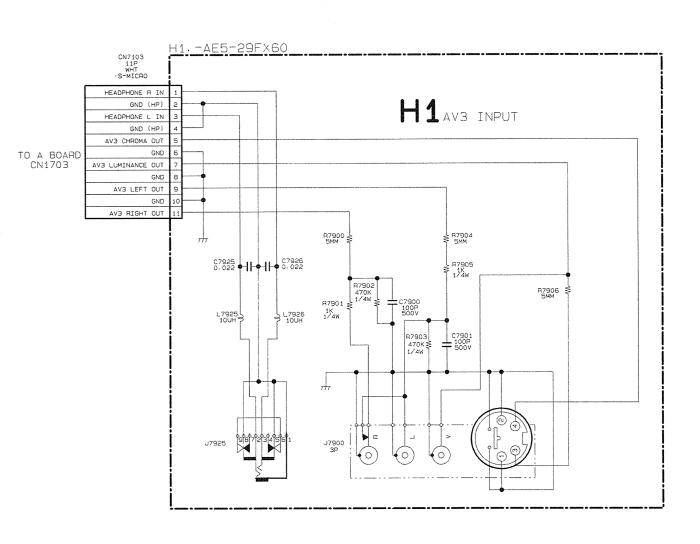




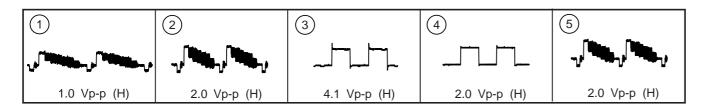




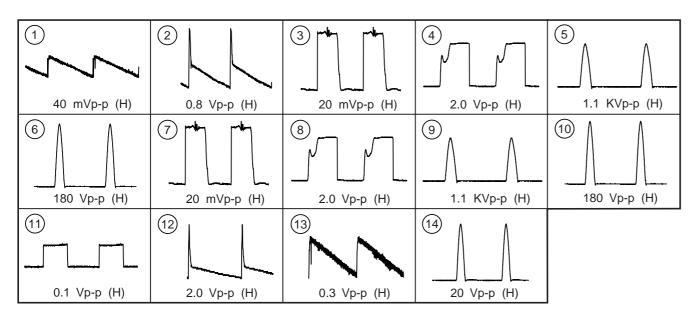




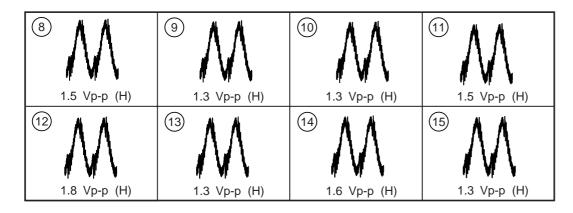
#### **Waveforms A Board**



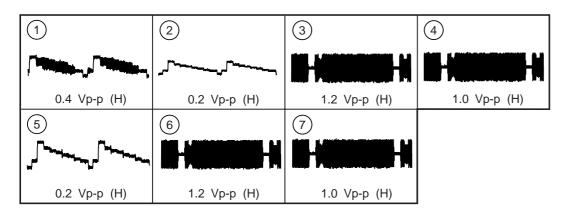
#### **Waveforms D Board**



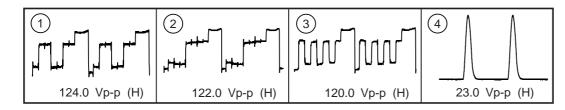
#### Waveforms J1(1/2) Board



## Waveforms J1(2/2) Board

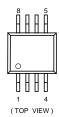


## Waveforms C Board

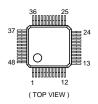


#### **5-4 SEMICONDUCTORS**

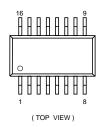
BA7046F BA7046F-T1 LM393PS-E20 MB3793-42NF MB3793-42NF-ER NJM2240M NJM2240M(TE2) NJM3404AD



CXA1855Q-T6



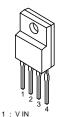
CXA1875AM-T4 HE4094BT MC14052BDR2 MC74F157ADR2 SN74LS221D 74HCT4046AD/S470



CXD2053S TDA4780/V3



KA78R05TU KA78R09TU KA78R33TU



1 : V IN 2 : V OUT 3 : GND 4 : ON/OFF CONTROL

LM393D M5216P M24C32-BN6 ST24C16FB6 TDA2822M UPC393C



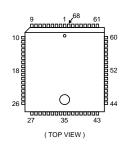
LM78L05ACZ LM78L12ACZ L78L05ACZ-AP L78L12ACZ-AP



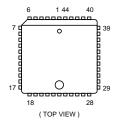
MB3793-42PNF-ER



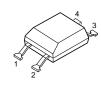
MSP3410D-QA-B4 SAA7185WP SDA5273P-C134-GEG SDA5275



M27C800-100K1



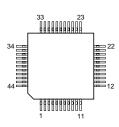
PC123F2 PC123FY2



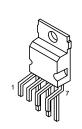
SBX1981-51



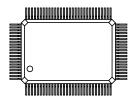
SDA9361



STV9379



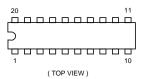
SAB-C161R1-LM



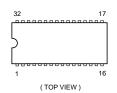
TC55257DFTL-70V-EL



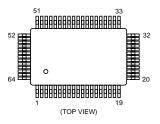
TDA7309D013TR



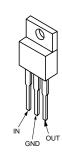
SDA9288X-B121 TDA9143/N2 TDA9144/N2 TDA9170T



TDA9320H-N1-518



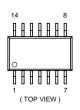
TEA6422DT LM393N



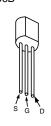
TOP209P



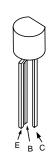
#### U2860B-BFPG3 74LVC08D



BC546B BC556B



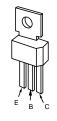
BF199 BF199-AMMO



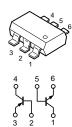
BF421-AMMO



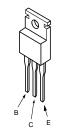
BF87-127



IMZ1A-T109



IRF614 IRF620



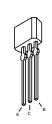
DTA144EK DTA144EK-T146 DTC114EK DTC114YKA-T146 DTC123EK DTC123EK-T146 DTC124EKA-T146

DTC144EK DTC144EK-T146 2SA1037K-T-146-R 2SA1162-G 2SC2412K-QR 2SC2412K-T-146-R

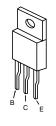


DTA144ESA DTA144ESA-TP DTC114ESA-TP DTC144ESA-TP 2SA1175-HFE 2SA733-K

2SA933AS-RT 2SA933AS-QRT 2SA933S-RT 2SC1740S-RT 2SC2785-HFE



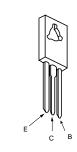
2SA1837



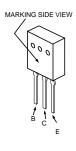
2SC2500-B 2SC2551-O 2SC2551O-TPE2



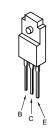
2SC2688-LK 2SC3840K



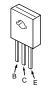
2SC3997CA



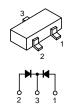
2SC4793



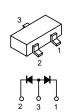
2SD2396H



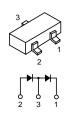
DAN202K DAN202K-T-146



DAP202K DAP202K-T-146

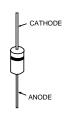


DA204K DA204K-T-146

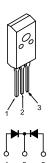


D1NL20-TA D1NL20U-TR D1N54-TR EGP20G EL1Z GP08D GP08DPKG23 R2K-V1

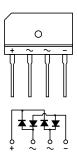
RGP02-20EG23 RGP10GPKG23 RGP15GPKG23 S2LA20F 1SS133T-77 1SS83 1SS83TD



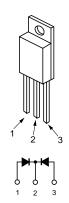
D10SC4M D10SC6M



D4SB60L D4SB60L-F RBA-402L



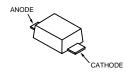
ESAC39M-06C ESAC39M-06CF38



MA3033-L

MA3033L-TX MA3056M-TX MA3062M-TX MA3030-H-(TX)

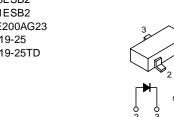
UF4005PKG23



ERA38-06TP1	MTZJ-T-77-5.6B
ERA82-004TP1	MTZJ-T-77-6.8
GP08DPKG23	MTZJ-T-77-7.5B
MTZJ-T-77-12	MTZJ-T-77-9.1
MTZJ-T-77-15	MTZJ-33C
MTZJ-T-77-2.2B	RD5.6ESB2
MTZJ-T-77-22	RD9.1ESB2
MTZJ-T-77-33C	PGKE200AG23
MTZJ-T-77-3.6B	1SS119-25
MTZJ-T-77-4.7B	1SS119-25TD

CATHODE

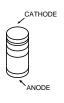
ANODE



ERC04-06SE



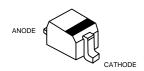
MA3051L-TX



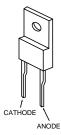
MA73-TX





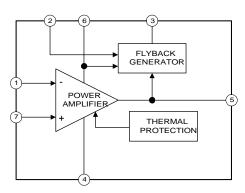


ERD08M-15

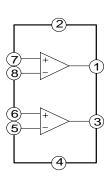


#### 5-5. IC BLOCK DIAGRAMS

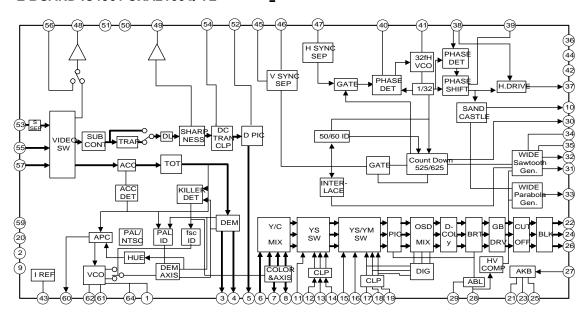
#### **D BOARD IC6700 STV 9379**



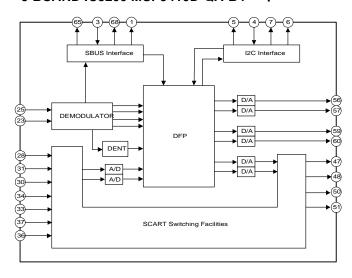
#### J BOARD IC8101 TDA2822M



#### E BOARD IC4301 CXA2100Q-TL



### J BOARD IC8200 MSP3410D-QA-B4



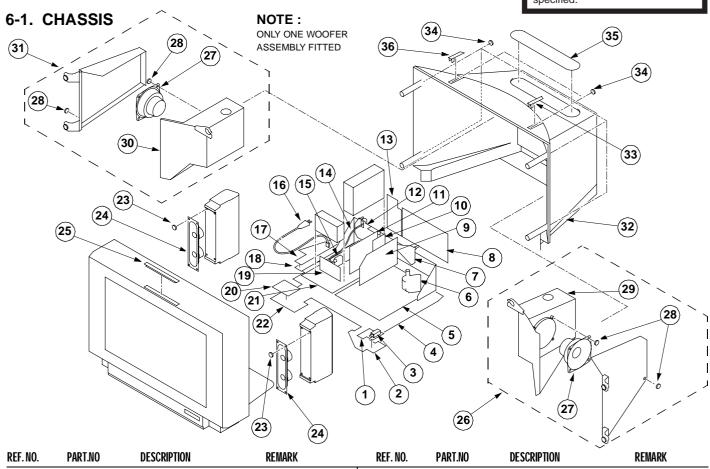
## SECTION 6 EXPLODED VIEWS

#### NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

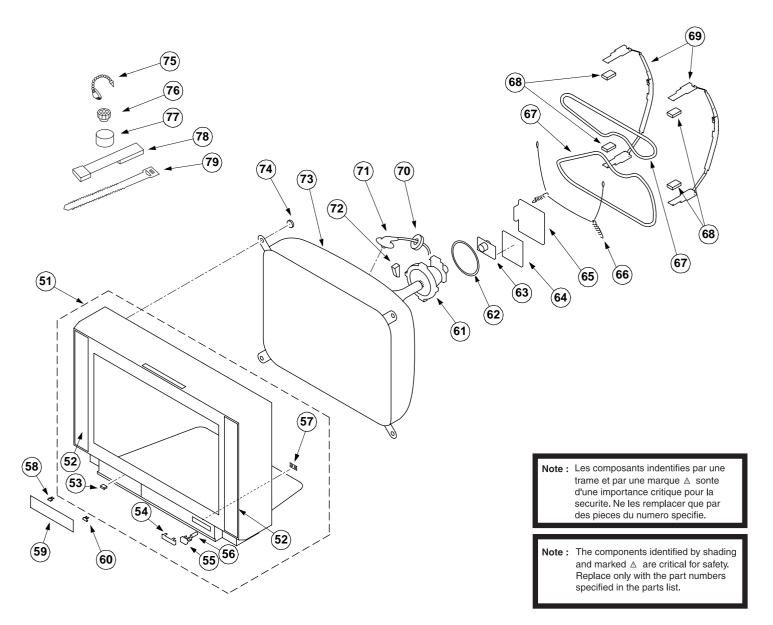
The components identified by shading and marked ⚠ are critical for safety

Replace only with the part number specified.



					/ O/			
REF. NO.	PART.NO	DESCRIPTION REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK		
1	*A-1624-073-A	F BOARD, COMPLETE	17	*A-1624-074-A	F1 BOARD, COMPLETE			
2	*4-204-551-01	BRACKET, F	18	*4-204-552-01	BRACKET, F1			
3 ∧	1-571-433-21	SWITCH, PUSH (AC POWER)	19	*A-1634-046-A	M BOARD, COMPLETE			
ļ	*1-204-549-01	BRACKET, MAIN	20	*A-1646-170-A	H1 BOARD, COMPLETE			
5	*A-1640-318-A	D BOARD (29"), COMPLETE	21	*A-1630-974-A	A BOARD, COMPLETE			
<b>5</b>	1-453-272-11	TRANSFORMER ASSY, FLYBACK			(KV-29FX60A/29I	FX60D/29FX60E)		
		(NX-4512/U2B4)		*A-1630-986-A	A BOARD, COMPLETE (KV-	-29FX60B)		
1	*4-204-476-01	BRACKET, J1		*A-1630-987-A	A BOARD, COMPLETE (KV-	-29FX60U)		
}	*A-1651-098-A	J BOARD, COMPLETE (KV-29FX60A/29FX60D/	22	*4-204-550-01	BRACKET, H			
		29FX60E/29FX60U)	23	4-039-358-01	SCREW (4X16), (+) BV 5	TAPPING		
	*A-1651-103-A	J BOARD, COMPLETE (KV-29FX60B)	24	1-529-153-11	SPEAKER (4.8X20CM)			
	*A-1640-320-A	D1 BOARD, COMPLETE	25	0-553-509-00	SWITCH, ARRAY			
0	*A-1640-319-A	E BOARD, COMPLETE	26	A-1678-188-A	WOOFER (R) ASSY	27-29		
1	*A-1620-111-A	B2 BOARD, COMPLETE	27	1-529-144-11	SPEAKER (13CM)			
2	*4-204-477-01	BRACKET, J2	28	4-039-355-11	SCREW (4X12), (+) BV 5	TAPPING		
3	*A-1648-015-A	U BOARD, COMPLETE	29	*A-1678-158-A	WOOFER (R) ASSY, SP FX	X		
.4	1-790-082-11	CABLE, RF	30	*A-1678-157-A	WOOFER (L) ASSY, SP FX	X		
.5	1-693-338-11	TUNER/VIF (AEP)	31	A-1678-150-A	WOOFER (L) ASSY	27,28,30		
		(KV-29FX60A/29FX60D/29FX60E)	32	4-204-508-01	COVER, REAR			
	1-693-340-11	TUNER/VIF (FR) (KV-29FX60B)	33	4-204-460-01	COVER, SCREW (LEFT)			
	1-693-339-11	TUNER/VIF (UK) (KV-29FX60U)	34	4-302-404-03	SCREW (WASHER HEAD) (-	+P 4X16)		
.6 🛆	1-574-062-61	CORD, POWER (WITH CONNECTOR)	35	*4-204-458-01	COVER, PORT			
		(KV-29FX60A/29FX60B/29FX60D/29FX60E)	36	4-039-461-01	COVER, SCREW (RIGHT)			
Λ	1-590-762-21	CORD. POWER (WITH UK PLUG) (KV-29FX60U)						

#### 6-2. PICTURE TUBE



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.		PART.NO	DESCRIPTION	REMARK
51	X-4200-423-1	BEZNET ASSY	52-57	65		A-1638-123-A	C BOARD, COMPLETE	
52	4-204-473-01	GRILLE, SPEAKER		66		4-200-433-01	SPRING, EXTENSION	
53	4-042-192-01	CATCHER, PUSH		67	Δ	1-416-654-11	COIL, DEMAGNETIC	
54	4-204-492-01	WINDOW, ORNAMENTAL		68		*4-202-988-01	CUSHION, BOX	
55	4-204-438-01	BUTTON, POWER		69		*4-060-802-01	HOLDER, DGC	
56	4-202-964-11	SPRING		70		3-704-372-01	HOLDER, HV CABLE	
57	4-204-439-01	GUIDE, LIGHT		71	Δ	1-251-317-31	CAP ASSY, HIGH-VOL	TAGE
58	4-202-555-01	SHAFT, DOOR		72		3-704-495-01	SPACER, DY	
59	4-204-435-01	DOOR (KV-29FX60A/29F	X60D)	73	Δ	8-735-053-05	PICTURE TUBE (M68L	NH060X)
	4-204-435-11	DOOR (KV-29FX60B/29F	X60E/29FX60U)	74		4-036-188-01	SCREW, SELF TAPPIN	G
60	4-045-250-01	DAMPER		75		4-308-870-00	CLIP, LEAD WIRE	
61 A	8-451-504-11	DEFLECTION YOKE Y29R	SC-M	76		1-452-094-00	MAGNET, ROTATABLE	DISK; 15MM
62	1-452-896-11	COIL, NA ROTATION (R	T200)	77		4-425-032-00	MAGNET, DISK; 10MM	
63 △	8-453-011-11	NECK ASSY, NA299-M		78		X-4387-214-1	PERMALLOY ASSY, CO	RRECTION
64	A-1644-094-A	VM BOARD, COMPLETE		79		3-701-007-00	BAND, BINDING	

# SECTION 7 ELECTRICAL PARTS LIST

Note: Les composants indentifies par une trame et par une marque ∆ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note: The components identified by shading and marked △ are critical for safety. Replace only with the part numbers specified in the parts list.

Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- RESISTORS
- All resistors are in ohms.
- F: nonflammable.

When indicating parts by reference number, please include the board name.

CAPACITORS MF: mF, PF: mmF COILS MMH: mH, uH

**B2** 

REF. NO.	PART.NO	DESCRIPTION		RE	MARK	REF. NO.	PART.NO	DESCRIPTION			REN	MARK
	A-1620-111-A	B2 BOARD, CO				C3356		CERAMIC CHIP			10%	25V
		******	*****			C3359	1-164-004-11	CERAMIC CHIP	0.1MF		10%	25V
		ACTMOD :				C3361	1-126-964-11	ELECT	10MF		20%	50V
	< CAP	ACITOR >					< CONNECTOR >					
3300	1-285-261-11	ELECT	100MF	20%	16V							
3301	1-285-261-11	ELECT	100MF	20%	16V	CN3100	1-695-301-11	CONNECTOR, BO	OARD TO	BOARI	40P	
3302	1-126-933-11	ELECT	100MF	20%	16V							
3307	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V		< IC	>				
3308	1-126-964-11	ELECT	10MF	20%	50V							
						IC3300	8-759-991-41	IC L78L05ACZ	-AP			
3309	1-126-964-11		10MF	20%	50V	IC3301		IC TLC2932IP				
3310	1-164-004-11	CERAMIC CHIP		10%	25V	IC3302		IC SAA4977H-				
3311	1-126-964-11	ELECT	10MF	20%	50V	IC3303	8-759-439-63	IC SAA4945H/	V1			
3312	1-126-964-11		10MF	20%	50V	IC3304	8-759-546-05	IC SAA4955TJ	-V1-T3			
3313	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V							
							< CO:	IL >				
3314		CERAMIC CHIP		10%	25V							
3315	1-163-809-11			10%	25V	L3302		INDUCTOR CHIL				
3316	1-164-004-11			10%	25V	L3303		INDUCTOR CHIL				
3317		CERAMIC CHIP		10%	25V	L3304		INDUCTOR CHIL				
3319	1-126-964-11	ELECT	10MF	20%	50V	L3305		INDUCTOR CHI				
						L3306	1-412-029-11	INDUCTOR CHI	P 10UH	I		
3320		CERAMIC CHIP		10%	25V					_		
3321	1-164-004-11			10%	25V	L3307		INDUCTOR CHIL				
3322	1-164-004-11			10%	25V	L3313		INDUCTOR CHI				
3323	1-164-004-11			10%	25V	L3314	1-412-029-11	INDUCTOR CHIL	P 10UH	ĺ		
3324	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V		< TR	ANSISTOR >				
325	1-126-964-11	ELECT	10MF	20%	50V		` ***	MOIDION /				
3326	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	Q3300	1-801-806-11	TRANSISTOR D	TC144EK	XA-T146	6	
3327	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V							
3328	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V		< RES	SISTOR >				
3329	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V							
						R3302	1-216-025-91		100	5%	1/10W	
3330	1-126-964-11		10MF	20%	50V	R3303	1-216-025-91	,	100	5%	1/10W	
3331	1-107-823-11			10%	16V	R3304	1-216-295-91		0			
3333	1-126-964-11		10MF	20%	50V	R3305	1-216-295-91		0			
3341		CERAMIC CHIP		10%	25V	R3306	1-216-295-91	SHORT	0			
3344	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V							
						R3307	1-216-295-91		0			
3351	1-126-964-11		10MF	20%	50V	R3308	1-216-049-91		1K	5%	1/10W	
3353	1-164-004-11			10%	25V	R3312	1-216-025-91	,	100	5%	1/10W	
3354	1-104-664-11		47MF	20%	16V	R3314	1-216-061-00		3.3K		1/10W	
3355	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	R3315	1-216-041-00	RES, CHIP	470	5%	1/10W	

The components identified by shading and marked  $\Delta$  are critical

B2	2 F	F1	Α							for safety			art number
REF. NO.	PART.NO	DESCRIPTION			REMA	ARK	REF. NO.	PART.NO	DESCR	RIPTION		REM	ARK
R3316	1-216-041-00	•	470	5%	1/10W			< DIC	DDE >				
R3317	1-216-041-00		470	5% Fo	1/10W		D710F	0 710 000 11	DTADE 0	F70vm0n			
R3318 R3319	1-216-041-00 1-216-041-00	•	470 470	5% 5%	1/10W 1/10W		D7125	8-719-030-11	DIODE 2	LA-5/UKT3F			
R3320	1-216-041-00	•	470	5% 5%	1/10W			< IC	>				
R3323	1-216-049-91	RES,CHIP	1K	5%	1/10W		IC7125	8-749-014-59	IC TSOP	1740KS1			
R3324	1-216-071-00		8.2K	5%	1/10W								
R3325	1-216-049-91		1K	5%	1/10W			< RES	SISTOR >				
R3331	1-216-047-91	•	820	5%	1/10W								
R3332	1-216-047-91	RES,CHIP	820	5%	1/10W		R7125 R7126	1-247-815-91 1-249-411-11		220 330	5% 5%	1/4W 1/4W	
R3336	1-216-033-00	RES,CHIP	220	5%	1/10W							•	
R3337	1-216-089-91	,	47K	5%	1/10W			< SWI	TCH>				
R3338	1-216-295-91	SHORT	0										
R3339	1-216-295-91		0				S7601	△ 1-571-433-21	SWITCH,	PUSH (AC P	OWER)		
R3340	1-216-051-00	RES,CHIP	1.2K	5%	1/10W		*****	*****	*****	*****	*****	*****	*****
R3341	1-216-041-00	RES, CHIP	470	5%	1/10W								
R3342	1-216-051-00		1.2K		1/10W			A-1624-074-A	F1 BOAR	D, COMPLETE			
R3343	1-216-051-00	•	1.2K		1/10W					*****			
R3344	1-216-295-91	•	0		•								
R3347	1-216-295-91		0					< CAF	PACITOR >	•			
R3348	1-216-021-00	RES,CHIP	68	5%	1/10W		C7626	△ 1-107-566-11	FILM	0.47M	F	20%	300V
R3362	1-216-295-91	SHORT	0										
R3363	1-216-295-91	SHORT	0					< CON	NECTOR >	•			
R3364	1-216-295-91	SHORT	0										
R3365	1-216-295-91	SHORT	0				CN7611 CN7622	↑ *1-580-844-11 1-695-915-11	•		WER)		
R3369	1-216-295-91	SHORT	0				CN7633	<b>△</b> *1-580-843-11	•	•	WER)		
R3371	1-216-295-91	SHORT	0						,		•		
R3376	1-216-057-00	RES,CHIP	2.2K	5%	1/10W			< FUS	SE >				
R3377	1-216-057-00	RES,CHIP	2.2K	5%	1/10W								
R3378	1-216-295-91	SHORT	0				F7626	△ 1-532-299-00 △ *1-533-725-11		•	6)		
R3379	1-216-295-91	SHORT	0							102 (2702	-1		
R3380	1-216-295-91		0					< RES	SISTOR >				
R3381	1-216-295-91		0										
R3382	1-216-295-91	SHORT	0	FC	1 /1 0		R7626	△ 1-202-719-00	SOLID	1M	20%	1/2W	
R3385	1-216-033-00		220	5%	1/10W			< TRAN	SFORMER	>			
*****	******	******	*****	****	******	******	LF7627	△ 1-433-488-11	TRANSFO	RMER, LINE	FILTER		
	A-1624-073-A	F BOARD, COMPI							RISTOR >				
	4-203-258-11	HOLDER, LED					VDR762	△ 1-801-073-31	VARISTO	R ERZV14D47	1		
		ACITOR >						****				*****	****
07105			200		000	F 0***		. 4200 0=4 -		<b>401-10-</b>	/ <b>***</b>	mr.co= /c-	) = 1 ( ) = 1
C7125	1-126-969-11		220MF		20%	50V		A-1630-974-A	*****	*****	29	FX60E)	erx6UD/
	< CON	NECTOR >						A-1630-986-A		, COMPLETE	(KV-291	FX60B)	
	*1-568-879-11							A-1630-987-A			(KV29F)	K60U)	
	↑ *1-691-291-11 ↑ *1-580-844-11				) 5P				*****	******			
J / VII		2 m / COMMECTOR	(2011					4-382-854-11	SCREW (	M3X10). P. :	SW (+)		
								4-931-401-01			1.7		



REF. NO.	PART.NO	DESCRIPTION	F	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
	< CAF	PACITOR >			C1611	1-126-933-11	ELECT 100MF	20% 16V
					C1612	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1100	1-104-664-11	ELECT 47MF	20%	25V	C1613	1-126-933-11	ELECT 100MF	20% 16V
C1101	1-104-666-11	ELECT 220M	F 20%	25V	C1614	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1126	1-162-568-11	CERAMIC CHIP 0.33	MF 10%	16V	C1615	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1127	1-137-035-11			100V				
C1128		CERAMIC CHIP 560F		50V	C1617	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1129	1-130-777-00	FILM 0.1M	F 5%	63V		< COI	NNECTOR >	
C1130	1-163-017-00	CERAMIC CHIP 0.00	47MF 10%	50V				
C1131	1-163-251-11	CERAMIC CHIP 100F	F 5%	50V	CN1111	*1-564-520-11	PLUG, CONNECTOR 5P	
21132	1-163-021-91	CERAMIC CHIP 0.01	MF 10%	50V	CN1200	1-695-298-11	CONNECTOR, BOARD TO	BOARD 40P
C1133	1-164-004-11	CERAMIC CHIP 0.1M	F 10%	25V	CN1401		CONNECTOR, BOARD TO	
					CN1600		CONNECTOR ASSY 20P	
C1134	1-126-961-11	ELECT 2.2M	F 20%	50V	CN1601		CONNECTOR ASSY 20P	
C1135		CERAMIC CHIP 0.1M			32002		***************************************	
C1136		CERAMIC CHIP 0.1M		25V	CN1602	1-900-903-64	CONNECTOR ASSY 20P	
C1137	1-126-953-81			35V	CN1700		PIN, CONNECTOR 4P	
C1138	1-126-953-81			35V	CN1700		CONNECTOR, BOARD TO	מת מ
51130	1-120-955-01	ELECI 2200	Mr 20°	334	CN1701		PIN, CONNECTOR 5P	DOARD IVE
01120	1 104 220 11	CERAMIC CHIP 0.1M	TI 100	E 017				
C1139				50V	CN1703	^1-364-314-11	PLUG, CONNECTOR 11P	
C1140	1-111-216-91			63V	mrd 0.0d	1 605 000 11		
C1151		CERAMIC CHIP 0.33		16V	CN1801		CONNECTOR, BOARD TO	
C1152	1-137-035-11			100V	CN1901	1-695-298-11	CONNECTOR, BOARD TO	BOARD 40P
C1153	1-163-135-00	CERAMIC CHIP 560F	F 5%	50V		< DI	ODE >	
C1154	1-130-777-00	FILM 0.1M	F 5%	63V				
C1155	1-163-017-00	CERAMIC CHIP 0.00	47MF 10%	50V	D1100	8-719-914-43	DIODE DAN202K-T-146	
C1156		CERAMIC CHIP 100F		50V	D1101		DIODE DAP202K-T-146	
C1157		CERAMIC CHIP 0.01		50V	D1102		DIODE DAN202K-T-146	
C1158		CERAMIC CHIP 0.1M		25V	D1103		DIODE DAN202K-T-146	
01130	1 104 004 11	CHICATIC CHII V.II.	100	231	D1401		DIODE UDZ-TE-17-6.2E	3
C1159	1-164-004-11	CERAMIC CHIP 0.1M	F 10%	25V				
C1160	1-164-004-11	CERAMIC CHIP 0.1M	F 10%	25V	D1402	8-719-105-99	DIODE UDZ-TE-17-6.2E	3
C1161	1-104-329-11	CERAMIC CHIP 0.1M	F 10%	50V	D1403	8-719-105-99	DIODE UDZ-TE-17-6.2E	3
C1162	1-111-216-91	ELECT 150M	F 20%	63V	D1404	8-719-105-99	DIODE UDZ-TE-17-6.2E	3
C1177	1-164-004-11	CERAMIC CHIP 0.1M	F 10%	25V	D1626	8-719-914-43	DIODE DAN202K-T-146	
					D1627	8-719-914-43	DIODE DAN202K-T-146	
C1178	1-126-964-11	ELECT 10MF	20%	50V				
C1179	1-126-964-11	ELECT 10MF	20%	50V	D1629	8-719-914-43	DIODE DAN202K-T-146	
C1180	1-126-952-91	ELECT 1000	MF 20%	35V				
C1181	1-126-952-91	ELECT 1000	MF 20%	35V		< FEI	RRITE BEAD >	
C1182	1-164-004-11	CERAMIC CHIP 0.1M		25V	ED1100	1 525 020 00	TEAD TIMPED /E OAN	
01102	1 164 004 11	CEDANTO CUED A 15	T 100	0517	FB1126	1-232-030-00	LEAD, JUMPER (5.0MM)	1
C1183		CERAMIC CHIP 0.1M				,		
C1184		CERAMIC CHIP 0.47				< IC	>	
C1226	1-104-661-91					A ==A = · · · · · · =		
C1326		CERAMIC CHIP 0.01			IC1126	8-759-544-25		
C1327	1-126-934-11	ELECT 220M	F 20%	10V	IC1151	8-759-544-25		
					IC1176	8-759-333-24		
C1328		CERAMIC CHIP 100F		50V	IC1400		IC CXA1875AM-T4	
C1601		CERAMIC CHIP 0.1M			IC1601	8-759-457-44	IC KA78R05TU	
C1602	1-164-004-11	CERAMIC CHIP 0.1M	F 10%					
C1603	1-126-933-11	ELECT 100M	F 20%	16V	IC1602	8-759-457-44	IC KA78R05TU	
C1604	1-126-933-11	ELECT 100M	F 20%	16V	IC1603	8-759-295-82	IC L78L08ACZ-AP	
					IC1604	8-759-544-13	IC KA78R09TU	
C1605	1-164-004-11	CERAMIC CHIP 0.1M	F 10%	25V	IC1605		IC KA78R33TU	
C1607		CERAMIC CHIP 0.1M			101003	3 ,00 011 11		
C1608	1-126-934-11					< CO:	ΙΤ. <b>&gt;</b>	
C1609		CERAMIC CHIP 0.1M				` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	/	
C1610		CERAMIC CHIP 0.1M			L1126	0-553-937-00	CHUKE CUII	
01010	I 104-004-11	CEMPATIC CHIP U.IN	106	231	11120	0.333-331-00	CHOKE COIL	



REF. NO.	PART.NO	DESCRIPTION			REMARK	REF. NO.	PART.NO	DESCRIPTION			REMARK
L1127	1-414-158-11	INDUCTOR	2.2UH			R1204	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
L1128	1-414-158-11	INDUCTOR	2.2UH			R1205	1-216-089-91	RES, CHIP	47K	5%	1/10W
L1151	0-553-937-00	CHOKE COIL				R1206	1-216-073-00		10K	5%	1/10W
L1152	1-414-158-11		2.2UH			R1207	1-216-065-91		4.7K		1/10W
L1153	1-414-158-11		2.2UH			R1208	1-216-089-91		47K		1/10W
	- 121 200 22							/			-, - • · · ·
L1326	1-414-183-41	TNDUCTOR	10UH			R1209	1-216-065-91	RES CHIP	4.7K	<b>5</b> %	1/10W
21320	1 111 105 11	1110001011	10011			R1210	1-216-089-91		47K		1/10W
	ע ייים ע	NSISTOR >				R1226	1-216-073-00		10K		1/10W
	\ IM	MSISION >				R1227	1-216-073-00		10K		1/10W
01100	0 700 016 00	mpawatamop 0	331007# /	m 14C		R1227 R1228					
Q1100		TRANSISTOR 29				K1228	1-216-073-00	RES, CHIP	10K	38	1/10W
Q1201		TRANSISTOR 25				21000	1 016 070 00	DEG 601TD	1 0**	<b>F</b> 0	1 /1 000
Q1202		TRANSISTOR 25				R1229	1-216-073-00		10K	5%	1/10W
Q1203		TRANSISTOR 25				R1230	1-216-055-00		1.8K	58	1/10W
Q1204	8-729-620-06	TRANSISTOR 25	SC2412K-	T-146	-R	R1232	1-216-295-91		0		
						R1233	1-216-049-91	,	1K	5%	1/10W
Q1226		TRANSISTOR 29				R1326	1-216-025-91	RES,CHIP	100	5%	1/10W
Q1227	8-729-620-06	TRANSISTOR 25	SC2412K-	T-146	-R						
Q1229	8-729-027-38	TRANSISTOR D	TA144EKA	-T146		R1327	1-216-025-91	RES,CHIP	100	5%	1/10W
Q1326	8-729-620-06	TRANSISTOR 25	SC2412K-	T-146	-R	R1328	1-216-073-00		10K	5%	1/10W
Q1327	8-729-216-22	TRANSISTOR 25	SA1037K-	T-146	-R	R1329	1-216-025-91		100	5%	1/10W
<b>2</b>					-	R1330	1-216-041-00		470	5%	1/10W
Q1328	8-729-620-06	TRANSISTOR 25	C2412K-	T-146	_D	R1331	1-216-041-00		470	5%	1/10W
Q1329		TRANSISTOR 25				KIJJI	1 210 041 00	RES, CHII	7/0	<b>J</b> 0	1/10#
					-r	D1222	1 016 041 00	DEC CUID	470	E 0.	1 /1 017
Q1400		TRANSISTOR KS				R1332	1-216-041-00		470	5% = °	1/10W
Q1601		TRANSISTOR 25				R1333	1-216-075-00		12K		1/10W
Q1626	8-729-620-06	TRANSISTOR 25	SC2412K-	T-146	-R	R1334	1-216-069-00		6.8K		1/10W
						R1335	1-216-025-91		100	5%	1/10W
	< RES	SISTOR >				R1336	1-216-041-00	RES,CHIP	470	5%	1/10W
R1001	1-216-295-91	QUOD#	0			R1337	1-216-041-00	DEC CHID	470	5%	1/10W
R1001	1-216-295-91		0			R1338	1-216-001-00		10	5%	1/10W
							1-216-041-00				
R1003	1-216-295-91		0			R1339		'	470	5%	1/10W
R1004	1-216-295-91		0			R1340	1-216-043-91		560	<b>5</b> %	1/10W
R1005	1-216-295-91	SHORT	0			R1342	1-216-073-91	RES, CHIP	10K	5%	1/10W
R1006	1-216-295-91	CU∩D#	0			R1400	1-216-053-00	DEC CUID	1.5K	<b>5</b> 9	1/10W
R1100	1-216-025-91		100	E C	1 /1 017		1-216-081-00		22K		1/10W
								•	_	20	1/10W
R1101		RES, CHIP			1/10W	R1403	1-216-295-91		0		
R1102		RES, CHIP			1/10W	R1404	1-216-295-91		0	<b>F</b> 0	4 /4 0==
R1126	1-216-631-11	METAL CHIP	150	0.50%	1/10W	R1405	1-216-029-91	RES, CHIP	100	5%	1/10W
R1127	1-216-075-00	RES.CHIP	12K	5%	1/10W	R1407	1-216-029-91	RES.CHIP	100	5%	1/10W
R1128	1-216-041-00			<b>5</b> %	1/10W	R1408	1-216-029-91		100		1/10W
R1151	1-216-631-11	•			1/10W	R1409	1-216-029-91	,	100		1/10W
R1152	1-216-075-00			5%	1/10W	R1410	1-216-029-91		100		1/10W
			470								
R1153	1-216-041-00	RES, CHIP	4/0	<b>3</b> 8	1/10W	R1601	1-216-057-00	RES, CHIP	2.2K	38	1/10W
R1176	1-216-063-91	RES, CHIP	3.9K	5%	1/10W	R1602	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R1179		METAL OXIDE			1W F	R1603	1-216-025-91	RES,CHIP	100		1/10W
R1180	1-216-081-91		22K		1/10W	R1605	1-216-049-91		1K		1/10W
R1181	1-216-045-91		680		1/10W	R1609	1-216-089-91		47K		1/10W
R1182	1-216-081-00		22K		1/10W	R1610	1-216-065-91		4.7K		1/10W
MITOE	I 710 001-00	ALO   CHIE	22IV .	<b>J</b> 0	1/ 1VII	VIOIO	1 210 VUJ-31	ALO, CHIE	7.11	J 0	1/ 1VII
R1183	1-216-045-00	RES,CHIP	680	5%	1/10W	R1615	1-216-025-91	RES, CHIP	100	5%	1/10W
R1184	1-216-089-91		47K		1/10W	R1616	1-216-304-11		3.3		1/10W
R1185	1-216-089-91		47K		1/10W	R1617	1-216-304-11		3.3		1/10W
R1201	1-216-089-91			ე∘ 5%	1/10W	R1618	1-216-295-91		0	<b>J</b> 0	-, -v"
R1201 R1202										E o	1 /1 OW
KIZUZ	1-216-083-00	veo'cuil	27K	JO	1/10W	R1621	1-216-027-00	res, chip	120	5%	1/10W
R1203	1-216-083-00	RES, CHIP	27K	5%	1/10W	R1622	1-216-029-00	RES, CHIP	150	5%	1/10W
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REF. NO.	PART.NO	DESCRIPTION	RE	MARK	REF. NO.	PART.NO	DESCRIPTION	RE	MARK	
R1623	1-216-033-00	RES,CHIP 220 5	% 1/10 <sup>1</sup>	W	C9512	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
R1625	1-216-295-91	SHORT 0			C9513	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
					C9514	1-163-235-11	CERAMIC CHIP 22PF	5%	50V	
	< TUNE	ER >			C9515	1-163-235-11	CERAMIC CHIP 22PF	5%	50V	
					C9516	1-163-251-11	CERAMIC CHIP 100PF	5%	50V	
TU1326		TUNER/VIF (AEP) (KV-2		FX60D/29FX60E)						
		TUNER/VIF (FR) (KV-2	•		C9517		CERAMIC CHIP 0.01MF	10%	50V	
	1-693-339-11	TUNER/VIF (UK) (KV-2	9FX60U)		C9518		CERAMIC CHIP 0.22MF	10%	25V	
******		*******			C9519 C9520	1-126-964-11	ELECT 10MF CERAMIC CHIP 100PF	20% 5%	50V	
					C9320	1-103-231-11	CERAMIC CHIP 100PF	36	50V	
	A-1634-046-A	M BOARD, COMPLETE					NNECTOR >			
	< CAP	PACITOR >			CN9101	1-695-301-11	CONNECTOR, BOARD TO B	OARD 40P		
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	norrow /				< DIC	ODE >			
C9100		CERAMIC CHIP 0.22MF	10%	25V						
C9101		CERAMIC CHIP 100PF	5%	50V	D9100		DIODE 1SS355TE-17			
C9102		CERAMIC CHIP 100PF	5%	50V	D9101		DIODE 1SS355TE-17			
C9104	1-104-664-11		20%	25V	D9102		DIODE 1SS355TE-17			
C9105	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	D9103		DIODE 1SS355TE-17			
~~	4 445 004 44		4.00	4.6	D9104	8-719-056-83	DIODE UDZ-TE-17-6.8B			
C9110		CERAMIC CHIP 0.68MF	10%	16V	20105	0.710.014.40	DTODE D3W000W # 146			
C9111		CERAMIC CHIP 0.068MF	10%	25V	D9105		DIODE DAN202K-T-146			
C9112		CERAMIC CHIP 0.1MF	10%	25V	D9107		DIODE 02CZ5.6-TE85L			
C9113		CERAMIC CHIP 0.1MF	10%	25V	D9108		DIODE DAP202K-T-146			
C9114	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	D9109 D9110		DIODE MA3056M-TX DIODE DAN202KT-146			
C9115	1-115-340-11	CERAMIC CHIP 0.22MF	10%	25V	23110	0 /15 511 45	DIODE DIMEDENT 110			
C9117		CERAMIC CHIP 0.1MF	10%	25V	D9111	8-719-105-91	DIODE MA3056M-TX			
C9118	1-104-664-11		20%	25V						
C9119		CERAMIC CHIP 220PF	5%	50V		< FII	LTER >			
C9121		CERAMIC CHIP 100PF	5%	50V						
					FL9101		ENCAPSULATED COMPONEN			
C9122		CERAMIC CHIP 0.22MF	10%	25V	FL9500		ENCAPSULATED COMPONEN			
C9123		CERAMIC CHIP 0.1MF	10%	25V	FL9501	1-236-071-11	ENCAPSULATED COMPONEN	T		
C9124		CERAMIC CHIP 0.1MF	10%	25V						
C9125		CERAMIC CHIP 0.1MF	10%			< IC	>			
C9126	1-163-105-00	CERAMIC CHIP 33PF	5%	50V	T00100	0 750 000 12	TO TW202DO E20			
C9127	1 162 105 00	CERAMIC CHIP 33PF	5%	50V	IC9100 IC9104		IC LM393PS-E20 IC MB3793-42PNF-ER			
C9127		CERAMIC CHIP 33PF	5% 5%	50V 50V	IC9104 IC9105		IC SAB-C161R1-LM			
C9128		CERAMIC CHIP 33PF	5% 5%	50V 50V	IC9103		IC TC55257DFTL-70V-EL			
C9129		CERAMIC CHIP 33PF	5%	50V	IC9107		IC M24C32-BN6			
C9131		CERAMIC CHIP 33PF	5% 5%	50V	103100	0-739-331-04	IC MZ4CJZ-BNO			
0,131	1 103 103 00	OMENIO ONLI JULI	•	301	IC9109	8-759-544-32	IC M27C800-100K1			
C9132	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	IC9110	8-759-559-96	IC HEF-4094BT			
C9400		CERAMIC CHIP 0.22MF	10%	25V	IC9500		IC MC74F00M-T2			
C9500	1-104-664-11	ELECT 47MF	20%	25V	IC9502	8-759-452-22	IC SDA5273P-C134-GEG			
C9502	1-104-664-11	ELECT 47MF	20%	25V						
C9503	1-126-964-11	ELECT 10MF	20%	50V		< CO	IL >			
C9504	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	L9400	1-412-029-11	INDUCTOR CHIP 10UH			
C9505	1-104-665-11	ELECT 100MF	20%	25V	L9401	1-412-029-11	INDUCTOR CHIP 10UH			
C9506		CERAMIC CHIP 100PF	5%	50V						
C9507		CERAMIC CHIP 0.22MF	10%	25V		< TRA	ANSISTOR >			
C9508		CERAMIC CHIP 0.22MF	10%	25V						
					Q9100	8-729-620-06	TRANSISTOR 2SC2412K-T	-146-R		
C9509	1-163-251-11	CERAMIC CHIP 100PF	5%	50V	Q9101	8-729-620-06	TRANSISTOR 2SC2412K-T	-146-R		
C9510		CERAMIC CHIP 0.22MF	10%	25V	Q9102		TRANSISTOR 2SA1037K-T			
C9511	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	Q9103	8-729-620-06	TRANSISTOR 2SC2412K-T	-146-R		
					1					



REF. NO.	PART.NO	DESCRIPTION	N		REMARK	REF. NO.	PART.NO	DESCRIPTION			REMARK
Q9105	8-729-620-06					R9161	1-216-069-00		6.8K		1/10W
Q9106	8-729-027-46	TRANSISTOR D	TC114YK	A-T146	i	R9162	1-216-069-00	RES, CHIP	6.8K	5%	1/10W
Q9107	8-729-027-46					R9164	1-216-069-00		6.8K		1/10W
Q9108	8-729-027-46	TRANSISTOR D	TC114YK	A-T146	;	R9166	1-216-073-00	RES, CHIP	10K	5%	1/10W
Q9109	8-729-027-46					R9168	1-216-069-00	,	6.8K		1/10W
Q9110	8-729-620-06	TRANSISTOR 2	2SC2412K	-T-146	i-R	R9169	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
Q9500	8-729-216-22					R9172	1-216-069-00		6.8K		1/10W
Q9501	8-729-216-22					R9173	1-216-295-91		0		-,
Q9502	8-729-216-22					R9174	1-216-025-91		100	5%	1/10W
Q9502 Q9503	1-801-806-11					R9175	1-216-025-91		100	5% 5%	1/10W 1/10W
09504	1-801-806-11	TRANSISTOR F	TC144EK	A-T146	;	R9176	1-216-025-91	RES,CHIP	100	5%	1/10W
~·						R9177	1-216-025-91	,	100	5%	1/10W
	< RF	ESISTOR >				R9178	1-216-025-91		100	5%	1/10W
	\ N.					R9184	1-216-025-91		100	5%	1/10W
R9100	1-216-073-00	BEC CHID	10K	5%	1/10W	R9185	1-216-025-91	,	100	ა 5%	1/10W 1/10W
R9100	1-216-073-00		220	5% 5%	1/10W 1/10W	K3103	1-210-023-91	NEO, CHIP	100	J-9	1/ 10 <b>m</b>
	1-216-033-00			ეგ 5%		D0106	1_016 005 01	DEC CUIT	100	E O.	1/10W
R9102		,	220		1/10W	R9186	1-216-025-91		100	5% ⊑°	•
R9103	1-216-025-91		100	5% <b>5</b> °	1/10W	R9187	1-216-065-91		4.7K		1/10W
R9104	1-216-073-00	RES, CHIP	10K	5%	1/10W	R9188	1-216-025-91		100	5% •••	1/10W
						R9189	1-216-025-91	,	100	5%	1/10W
R9105	1-216-073-00	,	10K	5%	1/10W	R9190	1-216-025-91	RES,CHIP	100	5%	1/10W
R9107	1-216-025-91		100	5%	1/10W						
R9108	1-216-025-91	,	100	5%	1/10W	R9191	1-216-025-91	,	100	5%	1/10W
R9109	1-216-073-00	RES,CHIP	10K	5%	1/10W	R9192	1-216-025-91		100	5%	1/10W
R9110	1-216-081-00	RES, CHIP	22K	5%	1/10W	R9193	1-216-097-91	RES,CHIP	100K	5%	1/10W
						R9194	1-216-097-91		100K	5%	1/10W
R9111	1-216-025-91	RES, CHIP	100	5%	1/10W	R9195	1-216-097-91	,	100K		1/10W
R9112	1-216-025-91		100	5%	1/10W		<del></del>	, -		-	•
R9113	1-216-033-00		220	5% 5%	1/10W	R9196	1-216-073-00	RES, CHIP	10K	5%	1/10W
R9114	1-216-083-00	,	27K	5%	1/10W	R9197	1-216-073-00		10K	5%	1/10W
R9115	1-216-081-00		22K	5%	1/10W	R9500	1-216-295-91		0	J 0	-, - • • •
	I 210 001-00	AND , CHIE	221/	J 0	±/ ±VII	R9500	1-216-295-91		0		
R9116	1-216-073-00	מדער פעדם	10K	5%	1/10W	R9501	1-216-295-91		0		
				ეგ 5%		N3302	1-210-233-31	PHONI	U		
R9117	1-216-073-00		10K		1/10W	DOFOA	1 016 041 00	DEC CUIT	470	E 0.	1 /1 01-7
R9119	1-216-073-00		10K	5% ⊑∘	1/10W	R9504	1-216-041-00		470 1 28		1/10W
R9120	1-216-073-00		10K		1/10W	R9505		RES, CHIP			
R9121	1-216-017-91	RES, CHIP	47	5%	1/10W	R9506	1-216-073-00		10K		1/10W
-0100	4 044 011		4	<b>F</b> ^	4 /4 0=-	R9507	1-216-097-91		100K		1/10W
R9122	1-216-049-91		1K	<b>5</b> %	1/10W	R9508	1-216-017-91	RES, CHIP	47	5%	1/10W
R9123	1-216-073-00		10K	5%	1/10W						
R9127	1-216-049-91		1K	5%	1/10W	R9509	1-216-049-91		1K	5%	1/10W
R9138	1-216-049-91	RES, CHIP	1K	5%	1/10W	R9510	1-216-017-91		47	5%	1/10W
R9140	1-216-057-00	RES, CHIP	2.2K	5%	1/10W	R9511	1-216-049-91	RES,CHIP	1K	5%	1/10W
						R9512	1-216-017-91		47	5%	1/10W
R9141	1-216-049-91	RES, CHIP	1K	5%	1/10W	R9513	1-216-017-91	,	47	5%	1/10W
R9142	1-216-041-00		470	5%	1/10W	1		- ,		- •	•
R9143	1-216-049-91	,	1K	5%	1/10W	R9514	1-216-017-91	RES.CHTP	47	5%	1/10W
R9143	1-216-057-00		2.2K		1/10W	R9515	1-216-295-91		0	•	-/ / 1
R9144 R9145				5% 5%		R9515	1-216-295-91				
CFIEN	1-216-049-91	KED, CHIP	1K	Jð	1/10W				0		
00146	1 016 010 01	DEG 2017	400	<b>F</b> 0	1 /1 053	R9517	1-216-295-91		0	F.0	1 /1 011
R9146	1-216-049-91		1K	<b>5</b> %	1/10W	R9518	1-216-049-91	RES, CHIP	1K	5%	1/10W
R9147	1-216-049-91		1K	5%	1/10W						
R9148	1-216-073-00		10K	5%	1/10W	R9519	1-216-039-00		390	5%	1/10W
R9149	1-216-025-91	RES, CHIP	100	5%	1/10W	R9520	1-216-039-00		390	5%	1/10W
R9150	1-216-025-91	RES, CHIP	100	5%	1/10W	R9521	1-216-039-00	RES,CHIP	390	5%	1/10W
						R9522	1-216-295-91		0		
R9151	1-216-025-91	RES, CHIP	100	5%	1/10W	R9523	1-216-295-91	SHORT	0		
	1-216-025-91		100	5%	1/10W						
R9153					-,						



REF. NO.	PART.NO	DESCRIPTION		RE	MARK	REF. NO.	PART.NO	DESCRIPTIO	N		REN	IARK	
R9525	1-216-057-00		2.2K 5%	1/10			< DIC	DDE >					
R9526	1-216-057-00	RES,CHIP	2.2K 5%	1/10	W								
R9527	1-216-057-00		2.2K 5%	1/10	W	D5300	8-719-921-20	DIODE 1SS11	9-25TD				
R9528	1-216-025-91	RES,CHIP	100 5%	1/10	W	D5302	8-719-989-09	DIODE 1SS83	ΓA				
R9529	1-216-025-91	RES,CHIP	100 5%	1/10	W	D5325	8-719-921-20						
						D5326	8-719-923-58			L			
R9530	1-216-025-91		100 5%	1/10	W	D5327	8-719-989-09	DIODE 1SS83	ľA				
R9531	1-216-295-91		0										
R9532	1-216-061-00	RES,CHIP	3.3K 5%	1/10	W	D5350	8-719-921-20						
						D5351	8-719-991-33						
	< CRY	STAL >				D5353	8-719-989-09						
						D5375	8-719-991-33						
X9101	1-781-107-21					D5376	8-719-991-33	DIODE 1SS13	3T-77				
X9500	1-760-551-21	VIBRATOR, CE	RAMIC										
						D5377	8-719-936-83						
******	******	******	*****	*****	*****	D5378	8-719-923-84						
	- 1400 100 -					D5379	8-719-982-96						
	A-1638-123-A	C BOARD, COM				D5380	8-719-982-96			2A			
		******	****			D5381	8-719-031-34	DIODE RGP02	-20EG23				
	1-671-108-11	PWB. C IC					< IC	>					
		SCREW (M3X10	), P, SW (+)	)									
			., , , , ,			IC5300	8-759-360-83	IC TDA6111Q	/N4				
	< CAP	ACITOR >				IC5325	8-759-360-83	IC TDA61110	/N4				
						IC5350	8-759-360-83						
C5301	1-102-129-91	CERAMIC	0.01MF	10%	50V								
C5302	1-128-525-91	ELECT	470MF	20%	16V		< SOC	CKET >					
C5304	1-107-657-91	ELECT	1MF	20%	350V								
C5305	1-137-052-91	FILM	0.047MF	10%	400V	J5375 △	1-540-071-22	SOCKET, CRT					
C5306	1-102-157-91	CERAMIC	560PF	10%	500V								
							< CO	IL >					
C5325	1-102-959-91	CERAMIC	22PF	5%	50V								
C5326	1-102-157-91	CERAMIC	560PF	10%	500V	L5300	1-408-599-41	INDUCTOR	4.70	JH			
C5327	1-102-129-91	CERAMIC	0.01MF	10%	50V	L5325	1-408-599-41	INDUCTOR	4.70	JH			
C5328	1-128-525-91	ELECT	470MF	20%	16V	L5350	1-408-599-41	INDUCTOR	4.70	JH			
C5329	1-107-657-91	ELECT	1MF	20%	350V	L5375	1-410-671-41	INDUCTOR	47U	ł			
						L5376	1-412-525-41	INDUCTOR	10U	ł			
C5330	1-137-052-91	FILM	0.047MF	10%	400V								
C5350	1-107-907-91		22MF	20%	50V	L5377	1-414-183-11	INDUCTOR	10U	Ŧ			
C5352	1-102-157-91		560PF	10%	500V								
C5353	1-102-129-91		0.01MF	10%	50V		< TR	ANSISTOR >					
C5354	1-128-525-91	ELECT	470MF	20%	16V								
						Q5300	8-729-204-98						
C5355	1-107-657-91		1MF	20%	350V	Q5325	8-729-204-98						
C5356	1-137-052-91		0.047MF	10%	400V	Q5350	8-729-029-57						
C5375	1-107-902-91		1MF	20%	50V	Q5351	8-729-204-98						
C5377	1-162-115-91		330PF	10%	2KV	Q5375	8-729-900-95	TRANSISTOR 2	2SC17409	S-RT			
C5378	1-162-116-91	CERAMIC	680PF	10%	2KV								
~=~=			****			Q5376	8-729-026-40	TRANSISTOR 2	2SA933A	S-RT			
C5379	1-162-116-91		680PF	10%	2KV								
C5380	1-107-652-91		10MF	20%	250V		< RES	SISTOR >					
C5381	1-162-116-91		680PF	10%	2KV		4 048 454 45	a	4	<b>F</b> ^	4 1		
C5382	1-162-114-71	CERAMIC	0.0047MF		2KV	R5300	1-247-831-91		1K	5% - ^	1/4W		
						R5301	1-247-827-91		680	<b>5</b> %	1/4W		
	< CONN	IECTOR >				R5302	1-247-813-91		180	5% 5°	1/4W		
eusp : 4 -			4-			R5303	1-247-831-91		1K	5%	1/4W		
CN5400	1-564-511-11		OR 8P			R5304	1-202-565-81	SOLID	470	20%	1/2W		
CN5511	1-695-915-21						4 04 = 455 = 5			<b>F</b> ^		_	
パれたをつつ	1-695-915-21					R5305	1-215-926-51			5% 	3W	F	
CN5522	4 -44						1 247 045 01	CADDOM	2 017	E O			
CN5522 CN5600	1-508-766-12	PIN, CONNECTO	R (5MM PITCE	i) 4P		R5306 R5307	1-247-845-91 1-247-863-91		3.9K 22K		1/4W 1/4W		

C	D

REF. NO.	PART.NO	DESCRIPTION		REMARK				REF. NO.		PART.NO	DESCRIPTION		REMARK		
R5325	1-247-831-91	CARBON	1K	5%	1/4W			C6605	Δ	1-119-888-51	CERAMIC	2200PF	20%	250V	
R5326	1-247-827-91	CARBON	680	5%	1/4W			C6606	Δ	1-119-888-51	CERAMIC	2200PF	20%	250V	
R5327	1-247-813-91	CARBON	180	5%	1/4W			C6608	Δ	1-161-964-91	CERAMIC	0.0047MF		250V	
R5328	1-247-831-91	CARBON	1K	5%	1/4W			C6609	Δ	1-161-964-91	CERAMIC	0.0047MF		250V	
R5329	1-202-565-81		470	20%	1/2W			C6610		1-162-599-12		0.0047MF		250V	
R5330	1-215-926-51	METAL OXIDE	33K	5%	3W	F		C6611		1-162-599-12	CERAMIC	0.0047MF		250V	
R5331	1-247-845-91	CARBON	3.9K	5%	1/4W			C6612		1-161-744-00	CERAMIC	0.01MF		400V	
R5332	1-247-863-91	CARBON	22K	5%	1/4W			C6616		1-164-625-11	CERAMIC	680PF	10%	500V	
R5350	1-247-831-91		1K	5%	1/4W			C6617		1-164-625-11	CERAMIC	680PF	10%	500V	
R5351	1-247-827-91		680	5%	1/4W			C6618		1-136-175-00		0.68MF	5%	50V	
R5352	1-247-829-91	CARBON	820	5%	1/4W			C6619		1-136-173-00	FILM	0.47MF	5%	50V	
R5353	1-247-839-91	CARBON	2.2K	5%	1/4W			C6620		1-136-618-11	FILM	0.047MF	5%	1.25KV	
R5354	1-247-833-91	CARBON	1.2K	5%	1/4W			C6621		1-136-175-00	FILM	0.68MF	5%	50V	
R5355	1-247-813-91	CARBON	180	5%	1/4W			C6622		1-164-625-11	CERAMIC	680PF	10%	500V	
R5356	1-249-831-91		1K	5%	1/4W			C6623		1-136-173-00		0.47MF	5%	50V	
R5357	1-202-565-81	SOLID	470	20%	1/2W			C6624		1-126-968-11	ELECT	100MF	20%	50V	
R5358		METAL OXIDE	33K	5%	3W	F		C6626		1-164-625-11		680PF	10%	500V	
R5359	1-247-863-91		22K	5%	1/4W			C6627		1-164-625-11		680PF	10%	500V	
R5360	1-247-845-91		3.9K		1/4W			C6628		1-126-936-11		3300MF	20%	16V	
R5361	1-247-847-91		4.7K		1/4W			C6629		1-128-548-11		4700MF	20%	25V	
R5375	1-247-867-91	CARBON	33K	5%	1/4W			C6630		1-110-626-11	ELECT	330MF	20%	160V	
R5376	1-247-855-91		10K	<b>5</b> %	1/4W			C6631		1-128-548-11		4700MF	20%	25V	
R5377	1-247-857-91		12K	<b>5</b> %	1/4W			C6632		1-128-548-11		4700MF	20%	25V	
R5378	1-247-855-91		10K	5%	1/4W			C6633		1-126-935-11		470MF	20%	16V	
R5379	1-247-873-91		56K	5%	1/4W			C6634		1-136-165-00		0.1MF	5%	50V	
R5381	1-247-837-91	CARBON	1.8K	5%	1/4W			C6635		1-104-664-11	ELECT	47MF	20%	25V	
R5382	1-202-549-81		100	20%	1/2W			C6636		1-102-129-00		0.01MF	10%	50V	
R5383		METAL OXIDE	1.8	5%	3W	F		C6637		1-102-129-00		0.01MF	10%	50V	
R5384		METAL OXIDE	1.8	5%	3W	F		C6638		1-137-368-11		0.0047MF	<b>5</b> %	50V	
R5385	1-202-549-81		100	20%	1/2W			C6639		1-102-228-00		470PF	10%	500V	
R5386	1-202-884-91	SOLID	820K	20%	1/2W			C6641		1-126-967-11	ELECT	47MF	20%	50V	
R5387	1-202-884-91	SOLID	820K		1/2W			C6642		1-126-964-11		10MF	20%	50V	
R5388	1-215-911-51	METAL OXIDE			3W	F		C6647		1-104-664-11	ELECT	47MF	20%	25V	
R5389	1-249-417-91		1K	5%	1/4W			C6649		1-126-965-11		22MF	20%	50V	
					_,			C6651		1-162-599-12		0.0047MF		250V	
	< VA	RIABLE RESISTOR	<b>( )</b>					C6652		1-107-679-91	ELECT	10MF	20%	450V	
RV5375	1-241-656-21	RES, ADJ, MET	AL FIL	M 1101	M			C6653		1-126-968-11		100MF	20%	50V	
RV5376		RES, ADJ, MET						C6654		1-162-117-00		100PF	10%	500V	
		, ,						C6655		1-109-879-11		22PF	5%	2KV	
*****	******	******	*****	****	*****	******		C6656		1-126-967-11		47MF	20%	50V	
	A-1640-318-A	D BOARD, COME	PLETE					C6657		1-126-941-11	ELECT	470MF	20%	25V	
		******						C6658		1-104-665-11		100MF	20%	25V	
								C6659		1-104-665-11		100MF	20%	25V	
	4-201-023-01	SPACER, INSUI	LATING					C6661		1-117-753-11			20%	450V	
	4-202-373-01							C6662		1-136-165-00		0.1MF	<b>5</b> %	50V	
		SCREW (M3X10)	. P. S	W (+)				*****				***	• •	•••	
		HEAT SINK, V.		٧٠/				C6664		1-136-153-00	FILM	0.01MF	5%	50V	
			<del>-</del>					C6665		1-136-165-00		0.1MF	5%	50V	
	< CA	PACITOR >						C6666		1-136-165-00		0.1MF	5%	50V	
	, on							C6667		1-126-933-11		100MF	20%	16V	
C6600	<b>△</b> 1-162-580-51	CERAMIC	0.01MF			400V		C6668		1-126-933-11		100MF	20%	16V	
C6603	△ 1-126-933-11	ELECT	100MF		20%	16V									
C6604	△ 1-126-767-11	ELECT	1000MF		20%	16V		C6669		1-136-165-00	FILM	0.1MF	5%	50V	



REF. NO.	PART.NO	DESCRIPTION	l	RE	MARK	REF. NO.	PART.NO	DESCRIPTIO	N	RE	MARK	
C6670	1-136-165-00	FILM	0.1MF	5%	50V	C6840	1-137-370-91	FILM	0.01MF	5%	50V	
C6671	1-104-664-11		47MF	20%	16V	C6841	1-104-660-91	ELECT	47MF	20%	16V	
C6672	1-104-664-11	ELECT	47MF	20%	16V	C6842	1-136-207-11	FILM	0.047MF	10%	400V	
C6673	1-104-664-11	ELECT	47MF	20%	16V	C6843	1-131-347-00	TANTALUM	1MF	10%	25V	
C6677	1-136-165-00	FILM	0.1MF	5%	50V	C6851	1-162-131-11	CERAMIC	220PF	10%	2KV	
C6679	1-130-495-00	FILM	0.1MF	5%	50V	C6852	1-162-129-00	CERAMIC	150PF	10%	2KV	
C6680	1-137-370-11	FILM	0.01MF	5%	50V	C6853	1-137-536-11	FILM	0.0022MF	5%	630V	
C6681	1-126-964-11	ELECT	10MF	20%	50V	C6855	1-136-205-11	FILM	0.022MF	10%	400V	
C6682	1-535-143-61	LEAD JUMPER	(5.0MM)			C6856	1-102-030-00		330PF	10%	500V	
C6700	1-102-129-00		0.01MF	10%	50V	C6857	1-130-785-11		0.47MF	10%	100V	
C6703	1-128-527-11	ELECT	330MF	20%	25V	C6861	1-137-364-11	FILM	0.001MF	5%	50V	
C6704	1-126-968-11	ELECT	100MF	20%	50V	C6862	1-137-364-11		0.001MF	5%	50V	
C6705	1-128-527-11	ELECT	330MF	20%	25V	C6863	1-162-134-11	CERAMIC	470PF	10%	2KV	
C6706	1-106-228-00		0.22MF	10%	100V							
C6707	1-129-702-00		0.001MF	10%	400V		< CONN	ECTOR >				
C6708	1-106-220-00	MYT.AR	0.1MF	10%	100V	CN6100	0-553-995-00	20PIN CONNE	CTOR			
C6709	1-102-129-00		0.01MF	10%	50V	CN6101	0-553-995-00					
C6710	1-130-785-11		0.47MF	10%	100V	CN6102	0-553-995-00					
C6727	1-102-228-00		470PF	10%	500V	CN6500	1-508-766-00		TOR (5MM PIT	CH/ ND		
C6801	1-104-664-11		47MF	20%	25V	CN6600	1-695-299-11					
C6802	1-126-960-11	DI DOM	1MF	20%	50V	CN6611	*1-785-270-11	DIN DV CON	NECTOD (DC D	ומפגס		
C6803	1-126-960-11		1MF	20% 20%	50V		1-508-765-00					
C6804	1-120-960-11	CERAMIC	470PF	20% 10%	50V 50V	CN6620 ZA	1-695-915-11			Cn) SP		
								•	•	011/ 0P		
C6805	1-102-114-00	CERAMIC	470PF	10%	50V	CN6666 △			TOR (5MM PIT	CH) 2P		
C6808	1-102-030-00	CERAMIC	330PF	10%	500V	CN6677	1-695-915-21	TAB (CONTAC	T)			
C6809	1-102-030-00		330PF	10%	500V	CN6688	1-695-915-21	•	•	-		
C6810	1-107-368-11		0.047MF	10%	200V	CN6700 △	*1-691-291-11	PIN, CONNEC	TOR (PC BOAR	D) 5P		
C6811	1-107-368-11		0.047MF	10%	200V							
C6812	1-162-131-11		220PF	10%	2KV		< DIC	DDE >				
C6813	1-162-558-51	CERAMIC	100PF	10%	2KV	D6600	8-719-911-19	DIODE 1SS11	9-25TD			
C6814	1-117-640-11	FTI.M	6800PF	3%	1.2KV	D6601	8-719-510-64					
C6815	1-117-835-11		6200PF	3%	2KV	D6602	8-719-109-89					
C6816	1-137-364-11		0.001MF	5%	50V	D6603	8-719-911-19					
C6817	1-125-893-11		680PF	3%	2KV	D6604	8-719-510-53					
C6818	1-125-893-11		680PF	3%	2KV	20001	0 717 510 55	D1002 D1000	V2 1			
						D6610	8-719-510-64					
C6819	1-125-893-11		680PF	3%	2KV	D6613	8-719-911-19					
C6820	1-125-893-11	FILM	680PF	3%	2KV	D6615	8-719-911-19	DIODE 1SS11	9-25TD			
C6824	1-107-846-11	FILM	0.1MF	5%	200V	D6616	8-719-510-12	DIODE D10SC	4M-F			
C6825	1-115-352-81	FILM	0.1MF	5%	250V	D6617	8-719-500-71	DIODE D8LC4	0F			
C6826	1-115-518-81	FILM	0.47MF	5%	250V	F.444	A 844 A = 4:					
						D6618	8-719-047-31					
C6827	1-115-511-81		0.12MF	5%	250V	D6619	8-719-510-12					
C6828	1-127-680-91			2%	100V	D6620	8-719-510-09					
C6829	1-127-680-91			2%	100V	D6621	8-719-991-33					
C6830	1-107-655-11		47MF	20%	250V	D6622	8-719-991-33	DIODE 1SS13	3T-77			
C6831	1-102-228-00	CERAMIC	470PF	10%	500V	D6623	8-719-911-19	DTODE 10011	<b>0_</b> 25ጥኮ			
C6832	1-126-941-11	₽₹₽₽₽	470MF	20%	25V	D6624	8-719-911-19					
C6833	1-126-941-11		470MF	20% 20%	25V 25V	D6625	8-719-991-33					
C6834	1-102-228-00		470PF	10%	500V	D6627	8-719-982-27					
C6835	1-102-228-00 1-123-024-21		470PF 33MF	10%	500V 160V	D6628	8-719-109-97	TODE WIZT-	T-//-0.8			
<b>.0030</b>								440				
C6836 C6837			0.022MF		250V	D6629 D6630	8-719-991-33 8-719-991-33					



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
D6651	8-719-068-00	DIODE ERC04-06SE		L6607	1-412-525-31	INDUCTOR 10UH	
D6652	8-719-923-78	DIODE MTZJ-T-77-12		L6651	1-414-183-41	INDUCTOR 10UH	
06653		DIODE DINL20U-TR		L6700	1-412-524-11		i
06654		DIODE P6KE200AG23		L6801	1-412-519-11		
06655		DIODE UF4005PKG23		L6802	1-412-519-11		
D6656	8-719-510-64	DIODE DINL20U-TR		L6803	1-412-519-11	INDUCTOR 3.3U	ī
D6658		DIODE ERC04-06SE		L6805	1-408-947-00		
D6659		DIODE DINL20U-TR		L6806	1-410-397-21		
06676		DIODE 1SS133T-77		L6807	1-410-397-21		
6677		DIODE MTZJ-T-77-4.7B		L6808	1-406-675-11		<u>.</u>
06678	8-710-021-40	DIODE MTZJ-T-77-4.7B			< FILT	FD \	
06679		DIODE 1SS133T-77			V 11111	ER /	
06681		DIODE 1SS133T-77		LF6603	1-406-659-21	INDUCTOR OUH	
06700		DIODE GP08DPKG23		LF6604	1-406-659-21		
06700		DIODE GPU8DPKG23 DIODE MTZJ-T-77-15B		LF6801	1-406-659-21		
0/01	0-119-110-41	DIODE WIFU-1-1/-13R		LF6851	1-406-985-11		
6803		DIODE RGP08DPKG23					
06804		LEAD JUMPER (10.0MM)			< IC L	INK >	
06805		DIODE RGP10GPKG23			4 444		
06806		DIODE REP15GPKG23		PS6601 △		PROTECTOR MODULE 2.	
6807	8-719-510-73	DIODE S3L20UF4				PROTECTOR MODULE 2.	
						PROTECTOR MODULE 2.	
6808	8-719-510-73	DIODE S3L20UF4		PS6604 A	1-801-550-21	PROTECTOR MODULE 2.	5A MP250
6809	8-719-991-33	DIODE 1SS133T		PS6605 △	1-801-550-21	PROTECTOR MODULE 2.	5A MP250
6810	8-719-923-88	DIODE MTZJ-15B					
6811	8-719-923-88	DIODE MTZJ-15B			< TRA	ANSISTOR >	
6812	8-719-991-33	DIODE 1SS133T-77		06600	0_700 046 47	TRANSISTOR KSC2500-1	סיית א
C012	0 710 000 00	DIODE MEZI 1ED		Q6600			
6813		DIODE MTZJ-15B		Q6602		TRANSISTOR 2SA933AS	
6851		DIODE ERA38-06TP1		Q6603		TRANSISTOR 2SC1740S	
6852	8-/19-9/0-8/	DIODE ERA38-06TP1		Q6605 Q6606		TRANSISTOR KSC2500-I	
	< FER	RITE BEAD >		20000	0 123 023 30	THE TOTAL PROPERTY OF	• ••
				Q6607	8-729-119-78	TRANSISTOR 2SC1740S	-RT
FB6602	1-410-396-41	FERRITE 0.45UH		Q6608	8-729-029-66	TRANSISTOR DTC114ES	l
FB6603	1-410-396-41	FERRITE 0.45UH		Q6651		TRANSISTOR 2SA933AS	
				Q6652		TRANSISTOR DTC124ES	
	< IC	>		Q6667	8-729-026-41	TRANSISTOR 2SA933AS	-RT
IC6600	1-810-051-11	POWER MODULE DM-48		Q6676	8-729-119-78	TRANSISTOR 2SC1740S	-RT
IC6604	8-729-045-40	TRANSISTOR MX0842B-F		Q6677	8-729-119-78	TRANSISTOR 2SC1740S	-RT
				Q6678	0_720_110_70	TRANSISTOR 2SC1740S	-RT
IC6651	8-759-468-89	IC TOP209P		20070	0-123-113-10		
	8-759-468-89 8-759-604-39					TRANSISTOR 2SA933AS	-RT
IC6652		IC L78M12CV		Q6679 Q6680	8-729-026-41	TRANSISTOR 2SA933ASTRANSISTOR DTC114ES	
IC6652 IC6653	8-759-604-39 8-759-544-13	IC L78M12CV IC KA78R09TU		Q6679 Q6680	8-729-026-41 8-729-029-66	TRANSISTOR DTC114ES	A-TP
IC6652 IC6653 IC6654	8-759-604-39 8-759-544-13 8-759-457-44	IC L78M12CV IC KA78R09TU IC KA78R05TU		Q6679 Q6680 Q6681	8-729-026-41 8-729-029-66 8-729-029-66	TRANSISTOR DTC114ESA	A-TP
IC6652 IC6653 IC6654 IC6667	8-759-604-39 8-759-544-13 8-759-457-44 8-759-908-15	IC L78M12CV IC KA78R09TU IC KA78R05TU IC TL431CZ		Q6679 Q6680 Q6681 Q6700	8-729-026-41 8-729-029-66 8-729-029-66 8-729-039-68	TRANSISTOR DTC114ESA TRANSISTOR DTC114ESA TRANSISTOR IRF620	A-TP
IC6652 IC6653 IC6654 IC6667 IC6676	8-759-604-39 8-759-544-13 8-759-457-44 8-759-908-15 8-759-908-15	IC L78M12CV IC KA78R09TU IC KA78R05TU IC TL431CZ IC TL431CZ		Q6679 Q6680 Q6681 Q6700 Q6801	8-729-026-41 8-729-029-66 8-729-029-66 8-729-039-68 8-729-119-80	TRANSISTOR DTC114ESA TRANSISTOR DTC114ESA TRANSISTOR IRF620 TRANSISTOR 2SC2688-1	A-TP A-TP K.K
IC6652 IC6653 IC6654 IC6667 IC6676 IC6700	8-759-604-39 8-759-544-13 8-759-457-44 8-759-908-15	IC L78M12CV IC KA78R09TU IC KA78R05TU IC TL431CZ IC TL431CZ IC STV9379		Q6679 Q6680 Q6681 Q6700	8-729-026-41 8-729-029-66 8-729-039-66 8-729-039-68 8-729-119-80 8-729-119-80	TRANSISTOR DTC114ESA TRANSISTOR DTC114ESA TRANSISTOR IRF620	A-TP A-TP .K .K
IC6652 IC6653 IC6654 IC6667 IC6676 IC6700	8-759-604-39 8-759-544-13 8-759-457-44 8-759-908-15 8-759-908-15 8-759-192-71 8-759-103-93	IC L78M12CV IC KA78R09TU IC KA78R05TU IC TL431CZ IC TL431CZ IC STV9379 IC LM393P		Q6679 Q6680 Q6681 Q6700 Q6801 Q6802 Q6803	8-729-026-41 8-729-029-66 8-729-039-68 8-729-119-80 8-729-119-80 8-729-046-18	TRANSISTOR DTC114ES/ TRANSISTOR DTC114ES/ TRANSISTOR IRF620 TRANSISTOR 2SC2688-1 TRANSISTOR 2SC2688-1 TRANSISTOR 2SC5480-0	A-TP A-TP LK LK LK
IC6652 IC6653 IC6654 IC6667 IC6676 IC6700	8-759-604-39 8-759-544-13 8-759-457-44 8-759-908-15 8-759-908-15 8-759-192-71	IC L78M12CV IC KA78R09TU IC KA78R05TU IC TL431CZ IC TL431CZ IC STV9379 IC LM393P		Q6679 Q6680 Q6681 Q6700 Q6801 Q6802 Q6803	8-729-026-41 8-729-029-66 8-729-039-68 8-729-119-80 8-729-119-80 8-729-046-18	TRANSISTOR DTC114ES/ TRANSISTOR DTC114ES/ TRANSISTOR IRF620 TRANSISTOR 2SC2688-1 TRANSISTOR 2SC2688-1 TRANSISTOR 2SC5480-0	A-TP A-TP  .K .K .IX .D1
IC6652 IC6653 IC6654 IC6667 IC6676 IC6700 IC6801	8-759-604-39 8-759-544-13 8-759-457-44 8-759-908-15 8-759-908-15 8-759-192-71 8-759-103-93	IC L78M12CV IC KA78R09TU IC KA78R05TU IC TL431CZ IC TL431CZ IC STV9379 IC LM393P		Q6679 Q6680 Q6681 Q6700 Q6801 Q6802 Q6803 Q6804 Q6805	8-729-026-41 8-729-029-66 8-729-039-68 8-729-119-80 8-729-119-80 8-729-046-18 8-729-046-18 8-729-038-83	TRANSISTOR DTC114ES/ TRANSISTOR DTC114ES/ TRANSISTOR IRF620 TRANSISTOR 2SC2688-1 TRANSISTOR 2SC2688-1 TRANSISTOR 2SC5480-( TRANSISTOR 2SC5480-( TRANSISTOR 2SK2251-(	A-TP A-TP  .K .K .IX .D1
IC6652 IC6653 IC6654 IC6667 IC6676 IC6700 IC6801	8-759-604-39 8-759-544-13 8-759-457-44 8-759-908-15 8-759-908-15 8-759-192-71 8-759-103-93 < COI	IC L78M12CV IC KA78R09TU  IC KA78R05TU IC TL431CZ IC TL431CZ IC STV9379 IC LM393P  L >  INDUCTOR 22UH		Q6679 Q6680 Q6681 Q6700 Q6801 Q6802 Q6803 Q6804 Q6805 Q6806	8-729-026-41 8-729-029-66 8-729-039-68 8-729-119-80 8-729-119-80 8-729-046-18 8-729-046-18 8-729-038-83 8-729-930-91	TRANSISTOR DTC114ES/ TRANSISTOR DTC114ES/ TRANSISTOR IRF620 TRANSISTOR 2SC2688-1 TRANSISTOR 2SC2688-1 TRANSISTOR 2SC5480-( TRANSISTOR 2SC5480-( TRANSISTOR 2SK2251-( TRANSISTOR IRF740	A-TP A-TP  .K .K .IX .D1
IC6653 IC6654 IC6667 IC6676 IC6700 IC6801	8-759-604-39 8-759-544-13 8-759-544-13 8-759-908-15 8-759-908-15 8-759-192-71 8-759-103-93 < COI 1-412-529-11 1-412-529-11	IC L78M12CV IC KA78R09TU  IC KA78R05TU IC TL431CZ IC TL431CZ IC STV9379 IC LM393P  L >  INDUCTOR 22UH INDUCTOR 22UH		Q6679 Q6680 Q6681 Q6700 Q6801 Q6802 Q6803 Q6804 Q6805 Q6806 Q6807	8-729-026-41 8-729-029-66 8-729-039-68 8-729-119-80 8-729-119-80 8-729-046-18 8-729-046-18 8-729-038-83 8-729-930-91 8-729-030-03	TRANSISTOR DTC114ES/ TRANSISTOR DTC114ES/ TRANSISTOR IRF620 TRANSISTOR 2SC2688-1 TRANSISTOR 2SC2688-1 TRANSISTOR 2SC5480-( TRANSISTOR 2SC5480-( TRANSISTOR 2SK2251-( TRANSISTOR IRF740 TRANSISTOR DTC144ES/	A-TP  A-TP  K  K  IX  D1  D1  A
IC6652 IC6653 IC6654 IC6667 IC6676 IC6700 IC6801	8-759-604-39 8-759-544-13 8-759-544-13 8-759-908-15 8-759-908-15 8-759-192-71 8-759-103-93 < COI 1-412-529-11 1-412-529-11 1-412-525-31	IC L78M12CV IC KA78R09TU  IC KA78R05TU IC TL431CZ IC TL431CZ IC STV9379 IC LM393P  L >  INDUCTOR 22UH INDUCTOR 22UH INDUCTOR 10UH		Q6679 Q6680 Q6681 Q6700 Q6801 Q6802 Q6803 Q6804 Q6805 Q6806	8-729-026-41 8-729-029-66 8-729-039-68 8-729-119-80 8-729-119-80 8-729-046-18 8-729-046-18 8-729-038-83 8-729-930-91 8-729-030-03	TRANSISTOR DTC114ES/ TRANSISTOR DTC114ES/ TRANSISTOR IRF620 TRANSISTOR 2SC2688-1 TRANSISTOR 2SC2688-1 TRANSISTOR 2SC5480-( TRANSISTOR 2SC5480-( TRANSISTOR 2SK2251-( TRANSISTOR IRF740	A-TP  A-TP  K  K  IX  D1  D1  A
IC6652 IC6653 IC6654 IC6667 IC6676 IC6700 IC6801	8-759-604-39 8-759-544-13 8-759-457-44 8-759-908-15 8-759-192-71 8-759-103-93 < COI 1-412-529-11 1-412-529-11 1-412-525-31 1-412-525-31	IC L78M12CV IC KA78R09TU  IC KA78R05TU IC TL431CZ IC TL431CZ IC STV9379 IC LM393P  L >  INDUCTOR 22UH INDUCTOR 22UH INDUCTOR 10UH INDUCTOR 10UH		Q6679 Q6680 Q6681 Q6700 Q6801 Q6802 Q6803 Q6804 Q6805 Q6806 Q6807 Q6809	8-729-026-41 8-729-029-66 8-729-039-68 8-729-119-80 8-729-119-80 8-729-046-18 8-729-046-18 8-729-038-83 8-729-930-91 8-729-030-03 8-729-119-78	TRANSISTOR DTC114ES/ TRANSISTOR DTC114ES/ TRANSISTOR IRF620 TRANSISTOR 2SC2688-1 TRANSISTOR 2SC2688-1 TRANSISTOR 2SC5480-0 TRANSISTOR 2SC5480-0 TRANSISTOR 2SK2251-0 TRANSISTOR IRF740 TRANSISTOR DTC144ES/ TRANSISTOR DTC144ES/ TRANSISTOR 2SC1740S-0	A-TP  A-TP  K  K  K  D1  D1  A-F19
IC6652 IC6653 IC6654 IC6667 IC6676 IC6700 IC6801	8-759-604-39 8-759-544-13 8-759-544-13 8-759-908-15 8-759-908-15 8-759-192-71 8-759-103-93 < COI 1-412-529-11 1-412-529-11 1-412-525-31	IC L78M12CV IC KA78R09TU  IC KA78R05TU IC TL431CZ IC TL431CZ IC STV9379 IC LM393P  L >  INDUCTOR 22UH INDUCTOR 22UH INDUCTOR 10UH INDUCTOR 10UH		Q6679 Q6680 Q6681 Q6700 Q6801 Q6802 Q6803 Q6804 Q6805 Q6806 Q6807	8-729-026-41 8-729-029-66 8-729-039-68 8-729-119-80 8-729-119-80 8-729-046-18 8-729-046-18 8-729-038-83 8-729-030-03 8-729-030-03 8-729-119-78 8-729-026-41	TRANSISTOR DTC114ES/ TRANSISTOR DTC114ES/ TRANSISTOR IRF620 TRANSISTOR 2SC2688-1 TRANSISTOR 2SC2688-1 TRANSISTOR 2SC5480-( TRANSISTOR 2SC5480-( TRANSISTOR 2SK2251-( TRANSISTOR IRF740 TRANSISTOR DTC144ES/	A-TP  A-TP  K  K  K  D1  D1  A-F19

The components identified by shading and marked ⚠ are critical for safety
Replace only with the part number specified.



REF. NO.		PART.NO	DESCRIPTION			REN	IARK	REF. NO.	PART.NO	DESCRIPTION			REN	MARK
		< RES	ISTOR >					R6677	1-249-417-11	CARBON	1K	5%	1/4W	
								R6678	1-249-417-11	CARBON	1K	5%	1/4W	
6601	Δ	1-202-968-11	CEMENTED	1.2	5%	10W		R6679	1-215-479-00	METAL	270K	1%	1/4W	
6603		1-249-430-11	CARBON	12K	5%	1/4W		R6681	1-215-467-00	METAL	82K	1%	1/4W	
6604		1-249-421-11	CARBON	2.2K	5%	1/4W		R6682	1-215-447-00	METAL	12K	1%	1/4W	
6605		1-249-417-11	CARBON	1K	5%	1/4W	F							
6606	Δ	1-202-968-11		1.2	5%	10W		R6683	1-215-429-00	METAL	2.2K	1%	1/4W	
			<del></del>					R6684	1-247-807-31		100	<b>5</b> %	1/4W	
.6607	Λ	1-202-968-11	CEMENTED	1.2	5%	10W		R6685	1-249-417-11		1K	5%	1/4W	
6608		1-202-968-11	CEMENTED	1.2	5% 5%	10W		R6686	1-215-449-00	METAL	15K	1%	1/4W	
6611		1-260-125-11	CARBON	150K	5%	1/2W		R6687	1-249-431-11		15K	<b>5</b> %	1/4W	
6612		1-260-125-11	CARBON	150K		1/2W		Noor	1 247 451 11	CALDON	1511	J 0	1/ 311	
6613		1-216-369-00	METAL OXIDE	1	5%	2W	F	R6688	1-249-417-11	CARBON	1K	5%	1/4W	
.0013		1-210-309-00	WEIAL OXIDE	1	20	2 W	r	R6700	1-215-441-00	METAL	6.8K		1/4W	
6614		1 260 125 11	CARRON	1507	E 0.	1 / 214								
		1-260-125-11	CARBON	150K		1/2W		R6701	1-215-437-91		4.7K		1/4W	
6615		1-260-125-11	CARBON	150K		1/2W	_	R6702	1-215-441-00	METAL	6.8K		1/4W	
6616		1-216-369-00	METAL OXIDE	1	5%		F	R6703	1-215-437-91	METAL	4.7K	1%	1/4W	
6619		1-249-425-11	CARBON	4.7K		1/4W	_	2000	1 010 000 11	01 DP 011		<b>F</b> ^	4 / *	_
.6620		1-249-443-11	CARBON	0.47	5%	1/4W	F	R6704	1-249-383-11		1.5	<b>5</b> %	1/4W	F
								R6705	1-247-791-91		22	5%	1/4W	_
6624		1-249-425-11	CARBON	4.7K		1/4W		R6707	1-215-888-00		220	5%		F
6625		1-249-429-11	CARBON	10K	5%	1/4W		R6708	1-214-798-21	METAL	1.8	1%	1/2W	
6626		1-247-807-31		100	5%	1/4W		R6709	1-214-798-21	METAL	1.8	1%	1/2W	
6627		1-249-429-11	CARBON	10K	5%	1/4W								
6628		1-260-129-11	CARBON	330K	5%	1/2W		R6710	1-247-843-11	CARBON	3.3K	5%	1/4W	
								R6801	1-215-440-00	METAL	6.2K	1%	1/4W	
6629		1-260-129-11	CARBON	330K	5%	1/2W		R6802	1-214-915-00	METAL	120K	1%	1/2W	
6630		1-249-417-11	CARBON	1K	5%	1/4W		R6803	1-249-421-11	CARBON	2.2K	5%	1/4W	
6631		1-249-425-11	CARBON	4.7K	5%	1/4W		R6804	1-247-807-31	CARBON	100	5%	1/4W	
6632		1-207-905-00	WIREWOUND	0.27	10%	2W	F							
6633		1-249-429-11	CARBON	10K	5%	1/4W		R6805	1-247-807-31	CARBON	100	5%	1/4W	
								R6806	1-249-411-11	CARBON	330	5%	1/4W	
6635		1-535-143-61	LEAD JUMPER (	5.0MM)				R6807	1-249-411-11	CARBON	330	5%	1/4W	
6637		1-249-421-11	CARBON	2.2K	5%	1/4W		R6808	1-260-340-11	CARBON	10K	5%	1/2W	
6638		1-247-895-91	CARBON	470K		1/4W		R6809	1-260-340-11	CARBON	10K	5%	1/2W	
6639		1-249-416-11	CARBON	820	5%	1/4W								
6640		1-249-417-11	CARBON	1K	5%	1/4W		R6810	1-215-920-51	METAL OXIDE	3.3K	5%	3W	F
						•		R6811	1-216-461-00		5.6K		2W	F
6641		1-260-127-11	CARBON	220K	5%	1/2W		R6812	1-215-895-11		3.3K		2W	F
6642		1-249-389-91			<b>5</b> %	1/4W	F	R6813	1-215-895-11		3.3K		2W	F
6643		1-249-417-11		1K	5%	1/4W		R6814	1-215-880-00		10	5% 5%	2W	F
6644		1-249-429-11			5%	1/4W	-		000 00			- 0		-
6645		1-260-131-11		470K		1/2W		R6815	1-215-880-00	<b>Μ</b> ፫ሞል፣. ሰ⊻፣ኮ፫	10	5%	2W	F
UU-10		131 11	JIE WOLL	-1/11	<b>J</b> 0	±/ 4H		R6816	1-216-361-00		0.22		2W	F
6646		1-249-429-11	CARRON	10K	5%	1/4W		R6817	1-216-361-00		0.22		2W	F
6647		1-249-429-11		270	5% 5%	1/4W		R6818	1-247-807-31		100	5% 5%	2W 1/4W	£
6648		1-249-410-11		270 22K	5% 5%	1/4W		R6819	1-247-807-31		100	5% 5%	1/4W	
							r r	70013	1-241-001-31	CANDUN	100	٥٦	1/4W	
6649		1-215-926-00		33K	5% 5%	3W	r	DC021	1-260-124-11	CADDON	1002	E 0.	1 /01.7	
6651		1-247-791-91	CARDUN	22	<b>J</b> 6	1/4W		R6831			120K		1/2W	₽
CCE0		1 040 000 11	asppou	4 7	E0	1 / /		R6832	1-216-434-11		1.8K		1W	
6652		1-249-389-11		4.7	5%	1/4W	F.	R6833	1-202-972-61		1	<b>5</b> %	1/4W	
6653		1-249-421-11		2.2K		1/4W		R6834	1-249-377-11		0.47		1/4W	
6655		1-249-429-11			5% 	1/4W		R6835	1-249-377-11	CARBON	0.47	5∜	1/4W	F
6656		1-218-265-11		8.2M		1W								
6657		1-215-419-91	METAL	820	1%	1/4W		R6836	1-249-431-11			5%	1/4W	
								R6837	1-215-919-51		2.2K		3W	F
6666		1-202-933-61	FUSIBLE		10%	1/2W	F	R6838	1-260-119-11	CARBON	47K	5%	1/2W	
6667		1-215-441-00	METAL	6.8K	1%	1/4W		R6839	1-215-919-51	FILM	2.2K	5%	3W	F
6668		1-249-429-11	CARBON	10K	5%	1/4W		R6840	1-247-843-11	CARBON	3.3K	5%	1/4W	
				470	5%	1/4W								
6669		1-249-413-11	CHILDON											

The components identified by shading and marked ⚠ are critical for safety
Replace only with the part number specified.

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	l										
REF. NO.	PART.NO	DESCRIPTION		RE	MARK	REF. NO.	PART.NO	DESCRIPTION		REI	MARK
R6843	1-247-855-91	CARBON	10K 5	5% 1/4W		C4319	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
R6844	1-247-879-91	CARBON	100K 5	5% 1/4W		C4320	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
R6845	1-247-863-91			5% 1/4W		C4321		CERAMIC CHIP		10%	25V
R6851	1-260-123-91		100K 5			C4322		CERAMIC CHIP		10%	25V
R6852	1-260-123-91		100K 5			C4324		CERAMIC CHIP		10%	25V
R6853	1-260-123-91	CARRON	100K 5	5% 1/2₩		C4325	1_163_003_01	CERAMIC CHIP	1000		
R6854	1-249-417-11			5% 1/4₩ 5% 1/4₩		C4329	1-126-963-11		4.7MF	20%	50V
R6856	1-216-485-11			5% 1/4 <b>n</b> 5% 3W	F	C4329	1-136-165-00		0.1MF	5%	50V
R6857	1-216-485-11		5.6K 5		F	C4330	1-126-959-11		0.47MF	ეა 20%	50V
R6858	1-216-485-11		5.6K 5		F	C4331 C4332		CERAMIC CHIP		20% 10%	25V
R6859	1-216-485-11		5.6K 5		F	C4333		CERAMIC CHIP		10%	25V
R6880	1-215-436-00		4.3K 1	-		C4334	1-126-967-11		47MF	20%	50V
R6885	1-215-493-00			L% 1/4W		C4336	1-126-967-11		47MF	20%	50V
R6886	1-215-477-00		220K 1	-		C4338		CERAMIC CHIP		10%	25V
R6887	1-215-461-00	METAL	47K 1	L% 1/4₩		C4340	1-126-967-11	ELECT	47MF	20%	50V
R6888	1-249-441-11	CARBON	100K 5	5% 1/4W		C4342	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
R6889	1-249-421-11		2.2K 5			C4343	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
16890	1-247-887-00		220K 5			C4344		CERAMIC CHIP		10%	25V
R6891	1-247-895-91		470K 5			C4345	1-126-967-11		47MF	20%	50V
R6892	1-249-437-11			5% 1/4W		C4346		CERAMIC CHIP		10%	25V
R6893	1-249-429-11	CADDON	10K 5	5% 1/4W		C4347	1_164_004_11	CERAMIC CHIP	0 1ME	10%	25V
R6894		LEAD, JUMPER		06 1/4W		C4347		CERAMIC CHIP		10%	25V 25V
				. 1//m	D.						25V 25V
6895	1-249-443-11		0.47			C4349		CERAMIC CHIP		10%	
6896	1-249-443-11	CAKBUN	0.47 5	5% 1/4W	r	C4350 C4351		CERAMIC CHIP CERAMIC CHIP		20% 10%	25V 50V
	< REL	AY >				0.002		<b>V</b>			
VCC01	A 1 755 000 11	DELTA AC DOLL	70			C4352	1-126-967-11		47MF	20%	50V
Y6601 Z		RELAY, AC POWE				C4353		CERAMIC CHIP		10%	16V
Y66UZ Z	<b>△</b> 1-755-167-11	RELAY, AC POWE	SK .			C4354		CERAMIC CHIP		10%	16V
	4 mp.	MODODNED >				C4355		CERAMIC CHIP		10%	25V
	< TRA	ANSFORMER >				C4356	1-164-004-11	CERAMIC CHIP	U.IMF	10%	25V
	△ 1-431-616-11					C4357		CERAMIC CHIP		10%	50V
	△ 1-433-516-11	,				C4358		CERAMIC CHIP		10%	25V
6651	△ 1-431-732-11	TRANSFORMER, (	CONVERTE	ER (SRT)		C4359	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
6801		TRANSFORMER, E				C4360	1-126-963-91		4.7MF	20%	50V
6802	1-433-489-11	TRANSFORMER, E	FERRITE	(HDT)		C4362	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
6804	△ 1-453-272-11	TRANSFORMER AS	SSY, FLY	BACK (NX-	4512/U2B4)	C4363	1-126-967-11	ELECT	47MF	20%	50V
6805		TRANSFORMER, I		12.22		C4364	1-126-967-11		47MF	20%	50V
6852		TRANSFORMER, I		(DFT)		C4369		CERAMIC CHIP		10%	25V
				\= <i> </i>		C4370	1-126-967-11		47MF	20%	50V
	< THE	ERMISTOR >				C4371		CERAMIC CHIP		10%	25V
116600	A 1 000 007 11	MILEDIATORON	\0.TMT***			04277	1 100 000 11	DI DOM	11/17	000	EOTZ
	△ 1-809-827-11		JSITIVE			C4377	1-126-960-11		1MF	20% 10%	50V
H6700	1-800-193-00	THERMISTOR				C4380		CERAMIC CHIP		10%	50V
			LALLELI		***	C4381	1-163-249-11			5%	50V
*****	******	*********	******	******	*****	C4518	1-162-638-11	CERAMIC CHIP	TWF.		16V
	*A-1640-319-A E BOARD, COMPLETE					< CONNECTOR >					
	***************************************						1-695-301-11	CONNECTOR, BO	DARD TO BOA	RD 40P	
< CAPACITOR >						CN4500	1-564-511-11	PLUG, CONNEC	TOR 8P		
						CN4502	*1-568-878-51	PIN, CONNECTO	OR 3P		
					A =						
	1-104-664-11		47MF	20%	25V						
C4316 C4317 C4318	1-164-004-11	ELECT 4 CERAMIC CHIP ( CERAMIC CHIP (	0.1MF	20% 10% 10%	25V 25V 25V						



REF. NO.	PART.NO	DESCRIPTION	l		REMARK	REF. NO.	PART.NO	DESCRIPTION			REMARK	
_	< DIO	DDE >				R4337	1-216-025-91		100		1/10W	
						R4339		RES,CHIP		5%	1/10W	
D4304		DIODE MTZJ-T				R4340	1-216-111-00		390K	5%	1/10W	
D4305		DIODE MTZJ-T				R4341	1-216-295-91		0			
D4311		DIODE DAN202				R4343	1-216-025-91	RES,CHIP	100	5%	1/10W	
D4312		DIODE DAN202										
D4313	8-719-401-63	DIODE MA3062	M-TX			R4344	1-216-025-91	,	100	5%	1/10W	
						R4345	1-216-677-11				1/10W	
	< FER	RRITE BEAD >				R4346	1-216-683-11		22K		1/10W	
4005	1 016 005 01		•			R4347	1-216-025-91		100		1/10W	
FB4387	1-216-295-91		0			R4348	1-216-025-91	RES,CHIP	100	5%	1/10W	
FB4388	1-216-295-91		0			24250	1 016 005 01	DEC 2017	100	<b>F</b> 0	1 /1 000	
FB4389	1-216-295-91	SHORT	0			R4350	1-216-025-91	•	100	5% 0 F0°	1/10W	
	. 70					R4354	1-216-675-11				1/10W	
	< IC	>				R4358	1-216-071-00				1/10W	
TO 4001	0 750 000 00	TO 01110100				R4359		RES, CHIP			1/10W	
IC4301	8-752-086-23	IC CXA2100Q-	TL			R4360	1-216-061-90	RES, CHIP	22K	5%	1/10W	
	< COI	T >				R4361	1-216-133-00		3.3M		1/10W	
						R4363	1-216-025-91		100		1/10W	
L4301	1-414-183-41		10UH			R4365	1-216-025-91	,	100		1/10W	
L4302	1-414-183-41		10UH			R4366	1-216-025-91	,	100		1/10W	
L4303	1-414-183-41		10UH			R4367	1-216-025-91	RES,CHIP	100	5%	1/10W	
L4304	1-414-183-41		10UH									
L4305	1-414-183-41	INDUCTOR	10UH			R4370	1-216-077-00			5%	1/10W	
						R4371	1-216-069-00		6.8K		1/10W	
L4306	1-414-183-41		10UH			R4372	1-216-049-91		1K	5% 	1/10W	
L4308	1-408-609-41		33UH			R4373	1-216-073-00		10K		1/10W	
L4309	1-408-609-41	INDUCTOR	33UH			R4374	1-216-049-91	RES, CHIP	1K	5%	1/10W	
	< TRA	NSISTOR >				R4375	1-216-049-91		1K	5%	1/10W	
						R4376	1-216-049-91	RES, CHIP	1K	5%	1/10W	
Q4304		TRANSISTOR 2				R4377	1-216-049-91		1K	5%	1/10W	
Q4307	8-729-216-22					R4378	1-216-101-00	•	150K		1/10W	
Q4308	8-729-216-22					R4380	1-216-073-00	RES,CHIP	10K	5%	1/10W	
Q4309	8-729-216-22											
Q4310	8-729-216-22	TRANSISTOR 2	SA1037K-	T-146-R		R4382	1-216-073-00	,		5%	1/10W	
						R4384	1-216-025-91	- / -	100	5%	1/10W	
Q4315		TRANSISTOR D				R4387	1-216-025-91		100		1/10W	
Q4316		TRANSISTOR 2				R4388	1-216-025-91	•	100		1/10W	
Q4317 Q4318		TRANSISTOR D TRANSISTOR 2				R4389	1-216-025-91	RES,CHIP	100	5%	1/10W	
Q4310	0-129-210-22	TRANSISTOR 2	SAIUS/K-	1-140-K		R4395	1_216_205_01	спорш	0			
	✓ DEG	SISTOR >				R4395 R4396	1-216-295-91 1-216-295-91		0			
	/ KE3	1010V \				R4396 R4398	1-216-295-91		100	<b>5</b> &	1/10W	
R4301	1-216-025-91	פוני רעדם	100	5% 1/	10W	R4398 R4401	1-216-025-91	•	100 120K		1/10W 1/10W	
R4301	1-216-025-91				10W	R4401 R4402	1-216-099-91	•	2.2M		1/10W 1/10W	
R4303	1-216-025-91				10W	14402	1 210-129-00	NEO, CHIE	2 , 2Pl	J 0	1/ 1/11	
R4304	1-216-025-91				10W	R4403	1-216-073-00	BEC CHID	10K	<b>5</b> ջ	1/10W	
R4305	1-216-025-91				10W	R4403	1-216-073-00	•	10K		1/10W 1/10W	
W1303	1 210-023-31	ABO , CHIP	100	J0 1/	1Vff	R4404 R4405	1-216-673-00	•	39K		1/10W 1/10W	
R4306	1-216-025-91	פוני רעום	100	5% 1/	10W	R4405	1-216-669-11		220K		1/10W 1/10W	
R4313	1-216-025-91		4.7K		10W	R4406 R4407	1-216-103-91	•	220K		1/10W 1/10W	
R4314	1-216-053-91		4.7K		10W	1/44/1	1 210-031-00	MED / CHIE	JUN	J 70	1/ 10M	
R4331	1-216-037-00				10W	R4504	1-216-295-91	SHORT	0			
	1-216-073-00				10W	R4504 R4505	1-216-295-91		0			
	1 210-013-00	ABO , CHIP	TOK	J0 1/	1VII	R4505	1-216-295-91		0			
K4332		DEC CUID	10K	5% 1/	10W	R4506 R4507	1-216-293-91		0 2.2M	<b>5</b> &	1/10W	
	1-216-073-00		IUN	J0 1/	TAIL	V4701	1-210-123-31	•				
R4333	1-216-073-00				1 NW	D/510	1_216_025_01	סדים רעדים	100	<b>5</b> 9	1 /1 ∩₩	
R4332 R4333 R4334	1-216-025-91	RES, CHIP	100	5% 1/	10W	R4518	1-216-025-91	RES,CHIP	100	5%	1/10W	
R4333		RES,CHIP RES,CHIP	100 100	5% 1/ 5% 1/	10W 10W 10W	R4518 R4519	1-216-025-91 1-216-025-91	·	100		1/10W 1/10W	



REF. NO.	PART.NO	DESCRIPTION	l	RE	MARK	REF. NO.	PART.NO	DESCRIPTION		RE	MARK
R4520	1-216-295-91	SHORT	0			C6255	1-136-177-00	FILM	1MF	5%	50V
R4521	1-216-295-91		0			C6256	1-163-117-00			5%	50V
4522	1-216-295-91		0			C6257	1-115-339-11			10%	50V
1523	1-216-295-91		0			C6257		CERAMIC CHIP		10°s	50V
323	1-210-293-91	SHOKI	V			C6259		CERAMIC CHIP		10%	16V
	< CRY	STAL >				C6260	1-104-664-11	₽₹₽₽₽	47MF	20%	16V
1300	1-767-127-11	TATADAMOD CE	DAMTC			C6261	1-115-339-11			10%	50V
1300	1-/6/-12/-11	VIBRATOR, CE.	KAMIC								
						C6262	1-136-165-00		0.1MF	<b>5</b> %	50V
******	******	*****	******	******	*****	C6263		CERAMIC CHIP		5%	50V
	- 1640 000 -	-1				C6264	1-126-964-11	ELECT	10MF	20%	50V
	A-1640-320-A										
		******	*****			C6306	1-126-964-11		10MF	20%	50V
						C6307	1-163-021-91			10%	50V
	4-382-854-11	SCREW (M3X10	), P, SW (+	+)		C6350		CERAMIC CHIP	0.1MF	10%	25V
						C6351	1-126-967-11	ELECT	47MF	20%	50V
	< CAP	ACITOR >				C6353	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
100	1-136-165-00	FILM	0.1MF	5%	50V	C6354	1-136-159-00	FILM	0.033MF	5%	50V
101	1-136-165-00	FILM	0.1MF	5%	50V	C6355	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
102	1-136-165-00	FILM	0.1MF	5%	50V	C6356	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
5103	1-163-205-00	CERAMIC CHIP	0.001MF	5%	50V	C6357	1-136-165-00	FILM	0.1MF	5%	50V
5104	1-163-205-00			5%	50V	C6358		CERAMIC CHIP		10%	50V
5105	1-126-967-11	ELECT	47MF	20%	50V	C6359	1-104-329-11	CERAMIC CHIP	0.1MF	10%	50V
5106	1-163-133-00			5%	50V	C6360	1-107-714-11		10MF	20%	50V
5108		CERAMIC CHIP		10%	50V	C6361		CERAMIC CHIP		10%	25V
109	1-126-967-11		47MF	20%	50V	C6362		CERAMIC CHIP		10%	50V
5110	1-126-967-11		47MF	20%	50V	C6363	1-104-665-11		100MF	20%	25V
			- 1 - 1 - 1						-4411	_0	
111	1-126-967-11		47MF	20%	50V	C6364	1-137-493-11		0.0047MF	5%	630V
5112	1-163-037-11			10%	50V	C6365	1-163-809-11			10%	25V
5113	1-163-021-91			10%	50V	C6367		CERAMIC CHIP		10%	50V
6114	1-126-964-11		10MF	20%	50V	C6368		CERAMIC CHIP		10%	50V
5115	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	C6370	1-137-493-11	FILM	0.0047MF	5%	630V
6116	1-163-275-11			5%	50V	C6371	1-137-493-11	FILM	0.0047MF	5%	630V
6117	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V	C6373	1-136-153-00	FILM	0.01MF	5%	50V
6119	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V	C6374	1-137-499-11	FILM	0.015MF	5%	630V
6121	1-126-964-11	ELECT	10MF	20%	50V	C6375	1-102-110-00		220PF	10%	50V
122	1-126-967-11		47MF	20%	50V	C6376	1-104-664-11		47MF	20%	16V
5125	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	C6377	1-128-551-11	ELECT	22MF	20%	25V
126	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	C6378	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
127	1-163-021-91			10%	50V	C6380	1-136-165-00		0.1MF	5%	50V
128	1-163-017-00			10%	50V	C6381	1-126-960-11		1MF	20%	50V
129	1-115-339-91			10%	50V	C6385	1-104-664-11		47MF	20%	25V
5130	1-163-259-91	CERAMIC CHIP	220PF	5%	50V	C6386	1-104-664-11	ELECT	47MF	20%	25V
5131	1-126-964-11		10MF	20%	50V	C6388	1-126-964-11		10MF	20%	50V
132	1-163-259-91			20% 5%	50V	C6389	1-126-964-11		10MF	20%	50V
199	1-163-229-11			5%	50V	C6392	1-104-664-11		47MF	20%	25V
207	1-126-967-11	ELECT	47MF	20%	50V	C6401	1-126-964-11	ELECT	10MF	20%	50V
208	1-126-967-11		47MF	20%	50V	C6402	1-107-714-11		10MF	20%	50V
209	1-163-133-00			5%	50V	C6407	1-136-161-00		0.047MF	5%	50V
210	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C6408	1-136-161-00	FILM	0.047MF	5%	50V
250	1-104-664-11		47MF	20%	16V	C6409	1-126-964-11	ELECT	10MF	20%	50V
253	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V						
						1					



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	l	REMARK
	< CON	NECTOR >			< FILT	ER >		
CN6502	*1-564-509-11	PLUG, CONNECTOR 6P		LF6350	1-406-989-21	INDUCTOR	OUH	
CN6601		CONNECTOR, BOARD TO	BOARD 50P	LF6351	1-406-989-21		OUH	
CN6622		PIN, CONNECTOR 3P						
CN6633	*1-568-878-51	PIN, CONNECTOR 3P			< IC I	INK >		
	< DIO	nr >		PS6376	△ 1-532-637-00	LINK, IC 1A/	150V (ICP-N25)	
					< TRAN	SISTOR >		
D6100		DIODE DAN202K-T-146						
D6101		DIODE MTZJ-77-4.7B		Q6100			SC2412K-T-146-R	
D6102		DIODE DAN202K-T-146		Q6101			SC2412K-T-146-R	
D6104		DIODE DAN202K-T-146		Q6102			SC2412K-T-146-R	
D6105	8-719-914-43	DIODE DAN202K-T-146		Q6103			SC2412K-T-146-R	
D6106	0 710 014 42	DIODE DAN202K-T-146		Q6104	8-729-620-06	TRANSISTOR 2	SC2412K-T-146-R	
D6108		DIODE MTZJ-T-77-4.7	3	06105	0 720 620 06	MDANGTOMOD 20	SC2412K-T-146-R	
			)	Q6105				
D6127 D6128		DIODE DAN202K-T-146 DIODE DAN202K-T-146		Q6106			SC2412K-T-146-R SC2412K-T-146-R	
		DIODE DAN202K-T-146 DIODE DAN202K-T-146		Q6107			SC2412K-T-146-R SA1037K-T-146-R	
D6129	8-719-914-43	DIODE DANZUZK-T-146		Q6108				
DC100	0 710 100 54	DIONE DDO OEGDO		Q6110	8-729-216-22	TRANSISTOR 2	SA1037K-T-146-R	
D6198		DIODE RD2.2ESB2		06110	0 700 600 06	MDANGTOMOD O	SC2412K-T-146-R	
D6253		DIODE 1SS119-25		Q6112			SC2412K-T-146-R SC2412K-T-146-R	
D6254 D6350		LEAD, JUMPER (5.0MM) DIODE DAN202K		Q6113			SC2412K-T-146-R SC2412K-T-146-R	
		DIODE DAN202K-T-146		Q6118			SC2412K-T-146-R SA1037K-T-146-R	
D6351	0-719-914-43	DIODE DANZUZK-1-146		Q6119				
D62E2	0 710 014 42	DIODE DANGOOM M 146		Q6120	8-729-216-22	TRANSISTOR 2	SA1037K-T-146-R	
D6352		DIODE DAN202K-T-146		06122	0 720 216 22	MDANGTOMOD 20	C31027V m 146 D	
D6353		DIODE ERA82-004-TP1 DIODE DAN202K-T-146		Q6122			SA1037K-T-146-R	
D6354				Q6123			SA1037K-T-146-R	
D6355		DIODE DAN202K-T-146		Q6125			SC2412K-T-146-R	
D6358	8-719-914-43	DIODE DAN202K-T-146		Q6126 Q6127			SA1037K-T-146-R SA1037K-T-146-R	
D6359	9_710_302_43	DIODE RGP10GPKG23		Q0127	0-729-210-22	IMMISISION 2	SAIUS/K-I-140-K	
D6401		DIODE DAN202K-T-146		Q6128	9_720_620_06	<b>₩₽</b> ₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	SC2412K-T-146-R	
D6401		DIODE MTZJ-T-77-3.6	1	Q6128 Q6129			SC2412K-T-146-R SA1037K-T-146-R	
D6402		DIODE MTZJ-T-77-7.5		Q6129 Q6130			SA1037K-T-146-R SA1037K-T-146-R	
D6404		DIODE DAN202K-T-146	•	Q6130 Q6131			SR1037K-T-140-R SC2412K-T-146-R	
D0404	0-719-914-43	DIODE DANZUZK-1-140		06201			SC2412K-T-146-R SC2412K-T-146-R	
D6405	8-719-921-63	DIODE MTZJ-T-77-7.5	3	20201	0 723 020 00	INMIDIDION 2	502412N 1 140 N	
				Q6202	8-729-620-06	TRANSISTOR 2	SC2412K-T-146-R	
	< IC	>		Q6250	8-729-620-06	TRANSISTOR 2	SC2412K-T-146-R	
				Q6251	8-729-620-06	TRANSISTOR 2	SC2412K-T-146-R	
IC6100	8-759-103-93	IC LM393N		Q6252	8-729-216-22	TRANSISTOR 2	SA1037K-T-146-R	
IC6101	8-759-450-95	IC LM393N		Q6253	8-729-017-06	TRANSISTOR 2	SC4793	
IC6102	8-759-701-50	IC NJM3404AD						
IC6103	8-759-450-95	IC LM393N		Q6254	8-729-017-05	TRANSISTOR 2	SA1837	
IC6250	8-759-478-66	IC CXA8070P		Q6350	8-729-620-06	TRANSISTOR 2	SC2412K-T-146-R	
				Q6351	8-729-119-78	TRANSISTOR 2	SC1740S-RT	
IC6251	8-759-903-16	IC LM318P		Q6352	8-729-114-91	TRANSISTOR 2	SB734-T-3	
IC6302	8-752-072-94	IC CXA1875AM-T4		Q6353	8-729-114-91	TRANSISTOR 2	SB734-T-3	
IC6350	8-759-135-80	IC LM358P						
IC6351	8-759-103-93	IC LM393P		Q6354	8-729-620-06	TRANSISTOR 2	SC2412K-T-146-R	
IC6352	8-759-103-93	IC LM393P		Q6356	8-729-620-06	TRANSISTOR 2	SC2412K-T-146-R	
				Q6358		TRANSISTOR 2		
IC6353	8-759-231-53	IC L7805CV		Q6401		TRANSISTOR D		
IC6354	8-759-325-48			Q6402	1-801-806-11	TRANSISTOR D	TC144EKA-T146	
IC6355	8-759-008-70			~				
IC6356	8-759-822-38	IC LA6510		Q6403	8-729-620-06	TRANSISTOR 2	SC2412K-T-146-R	
				Q6404			SA1037K-T-146-R	
				407				

**D1** 

REF. NO.	PART.NO	DESCRIPTION			REMARK	REF. NO.	PART.NO	DESCRIPTION			REMARK
Q6405	8-729-216-22	TRANSISTOR 25	SA1037K	-T-146	-R	R6149	1-216-025-91	RES,CHIP	100	5%	1/10W
Q6455	8-729-620-06	TRANSISTOR 25	SC2412K	-T-146	-R	R6154	1-216-651-91	METAL CHIP	1K	5%	1/10W
Q6465	8-729-620-06	TRANSISTOR 25	SC2412K	T-146	-R	R6155	1-216-667-91		4.7K	0.50%	1/10W
						R6158	1-216-671-91	RES,CHIP	6.8K	5%	1/10W
	< RES	SISTOR >				R6159	1-216-295-91	SHORT	0		
R6100	1-216-033-00	RES,CHIP	220	5%	1/10W	R6160	1-216-295-91	SHORT	0		
R6101	1-216-033-00	RES, CHIP	220	5%	1/10W	R6161	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R6102	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R6162	1-216-049-91	RES,CHIP	1K	5%	1/10W
R6103	1-216-057-00	RES,CHIP	2.2K		1/10W	R6165	1-216-699-11	METAL CHIP		0.50%	1/10W
R6104	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R6168	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R6105	1-216-049-91		1K	5%	1/10W	R6169	1-216-699-11			0.50%	
R6106	1-216-683-91		22K	5%	1/10W	R6170	1-216-037-00		330	5%	1/10W
R6107	1-216-657-11				1/10W	R6171	1-216-057-00		2.2K	5%	1/10W
R6108	1-216-657-11				1/10W	R6174	1-216-075-00			5%	1/10W
R6109	1-216-683-91	METAL CHIP	22K	<b>5</b> %	1/10W	R6175	1-216-075-00	RES,CHIP	12K	5%	1/10W
R6110	1-216-683-91		22K	5%	1/10W	R6176	1-216-043-91		2.2K		1/10W
R6111	1-216-057-00		2.2K		1/10W	R6177	1-216-065-91		4.7K		1/10W
R6112	1-216-057-00		2.2K		1/10W	R6178	1-216-073-00		10K		1/10W
R6113	1-216-073-00		10K	5%	1/10W	R6179	1-216-635-91		220K		1/10W
R6114	1-216-073-00	RES,CHIP	10K	5%	1/10W	R6180	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R6115	1-216-089-91	RES,CHIP	47K	5%	1/10W	R6182	1-216-089-91	RES, CHIP	47K	5%	1/10W
R6116	1-216-089-91		47K	5%	1/10W	R6183	1-216-057-00		2.2K		1/10W
R6117	1-216-073-00		10K	5%	1/10W	R6186	1-216-657-91		1.8K		1/10W
R6118	1-216-073-00	RES, CHIP	10K	5%	1/10W	R6187	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R6119	1-216-073-00	RES, CHIP	10K	5%	1/10W	R6189	1-216-631-91	RES, CHIP	150K	5%	1/10W
R6120	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R6190	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R6121	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R6191	1-215-925-11	METAL OXIDE	22K	5%	3W F
R6122	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R6192	1-216-665-91	METAL CHIP	3.9K	5%	1/10W
R6123	1-216-089-91	RES,CHIP	47K	5%	1/10W	R6194	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R6124	1-216-089-91	RES,CHIP	47K	5%	1/10W	R6195	1-216-683-91	METAL CHIP	22K	5%	1/10W
R6125	1-216-057-00		2.2K		1/10W	R6196	1-249-377-11	CARBON	0.47		1/4W F
R6126	1-216-037-00	RES,CHIP	330	5%	1/10W	R6198	1-216-081-91	RES,CHIP	22K	5%	1/10W
R6127	1-216-659-11				1/10W	R6199		RES,CHIP	22K	5%	1/10W
R6128		METAL CHIP			1/10W	R6205	1-216-025-91		100		1/10W
R6131	1-216-037-00	RES,CHIP	330	5%	1/10W	R6206	1-216-105-91	RES,CHIP	220K	5%	1/10W
R6132	1-216-037-00		330		1/10W	R6207	1-218-760-91		220K		1/10W
R6133	1-216-037-00			<b>5</b> %	1/10W	R6208	1-216-089-91		47K	5%	1/10W
R6134		RES, CHIP			1/10W	R6209	1-216-295-91		0		4.44.0
R6135	1-216-057-00		2.2K		1/10W	R6210	1-216-057-00	•	2.2K		1/10W
R6136	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	R6211	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6137	1-216-691-11				1/10W	R6212	1-216-057-00		2.2K		1/10W
R6138	1-216-691-11				1/10W	R6216	1-216-089-91		47K		1/10W
R6139	1-216-691-11				1/10W	R6217	1-216-073-00		10K		1/10W
R6140	1-216-057-00			5% 5°	1/10W	R6254	1-216-049-91		1K		1/10W
R6141	1-216-683-91	METAL CHIP	22 <b>K</b>	5%	1/10W	R6255	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R6142	1-216-672-91		7.5K		1/10W	R6256	1-216-057-00		2.2K		1/10W
R6143	1-216-057-00		2.2K		1/10W	R6257	1-216-061-00		3.3K		1/10W
R6145	1-216-647-91		680		1/10W	R6258	1-216-057-00	•	2.2K		1/10W
R6146		METAL CHIP			1/10W	R6259	1-216-097-91	•	100K		1/10W
R6147	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R6260	1-216-049-91	RES,CHIP	1K	5%	1/10W
R6148	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R6261	1-216-097-91	RES,CHIP	100K	5%	1/10W

REF. NO.	PART.NO	DESCRIPTION			REM	ARK	REF. NO.	PART.NO	DESCRIPTION			REMARK	
R6262	1-260-321-71	CYDDOM	270	5%	1/2W		R6377	1-216-689-11	ME האד כחום	30K	በ 50%	1/10W	_
R6263	1-216-025-91		100	ა 5%	1/2W		R6378	1-216-675-11			0.50%		
										0	0.30%	1/10W	
R6264	1-216-025-91		100	5% <b>5</b> %	1/10W		R6379	1-216-295-91		•	0 500	1 /1 000	
R6265	1-216-101-00		150K		1/10W		R6380	1-218-754-11				1/10W	
R6267	1-216-049-91	RES, CHIP	1K	5%	1/10W		R6381	1-216-045-00	RES, CHIP	680	5%	1/10W	
R6269	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W		R6382	1-218-754-11	METAL CHIP	120K	0.50%	1/10W	
R6270	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W		R6383	1-216-687-11	METAL CHIP	33K	0.50%	1/10W	
R6271	1-216-683-11	METAL CHIP	22K	0.50%	1/10W		R6384	1-216-043-91	RES,CHIP	560	5%	1/10W	
R6272	1-216-081-71	RES, CHIP	22K	5%	1/10W		R6385	1-216-295-91	SHORT	0			
R6273	1-216-081-00	RES, CHIP	22K	5%	1/10W		R6386	1-216-699-11	METAL CHIP	100K	0.50%	1/10W	
- 40.54					4 /4 0					4.0		4 /4 0	
R6276	1-216-689-11		39K		1/10W		R6387	1-216-677-11			0.50%		
R6277	1-216-686-11			0.50%			R6391	1-249-417-11		1K		1/4W	
R6278	1-216-057-00		2.2K		1/10W		R6394	1-216-069-00		6.8K		1/10W	
R6279	1-216-057-00	,	2.2K		1/10W		R6395	1-216-081-00		22K		1/10W	
R6280	1-249-377-11	CARBON	0.47	5%	1/4W	F	R6397	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R6281	1-249-377-11	CARBON	0.47	5%	1/4W	F	R6398	1-216-065-91	RES.CHIP	4.7K	5%	1/10W	
R6282	1-215-886-11		100	5%	2W		R6399	1-216-699-11	,			1/10W	
R6283	1-216-393-00		2.2	5%	3W		R6400	1-216-675-11			0.50%		
R6284	1-216-113-00		470K		1/10W		R6401	1-216-295-91		0	0.500	1/1011	
R6285	1-216-057-00	RES, CHIP	2.2K	24	1/10W		R6402	1-216-295-91	SHORT	0			
R6286	1-216-073-00	RES.CHIP	10K	5%	1/10W		R6403	1-216-661-11	METAL CHIP	2 7K	0.50%	1/10W	
R6287	1-216-073-00		10K	5%	1/10W		R6404	1-216-683-11				1/10W	
R6313	1-216-295-91		0	•	-, - • · ·		R6405	1-216-683-11		22K		1/10W	
R6322	1-216-049-91		1K	5%	1/10W		R6409	1-216-025-91		100	5%	1/10W	
R6323	1-216-049-91	,	1K	5%	1/10W		R6410	1-216-073-91	,	10K		1/10W	
R0323	1-210-049-91	RES, CHIP	IK	J*	1/104		K0410	1-210-075-91	RES, CHIP	ION	J*	1/10#	
R6324	1-216-025-91	RES, CHIP	100	5%	1/10W		R6411	1-216-073-00	RES, CHIP	10K	5%	1/10W	
R6325	1-216-025-91	RES, CHIP	100	5%	1/10W		R6412	1-216-073-00	RES, CHIP	10K	5%	1/10W	
R6350	1-216-089-91		47K	5%	1/10W		R6413	1-216-679-11		15K	0.50%	1/10W	
R6351	1-218-762-11			0.50%			R6414	1-216-679-11		15K		1/10W	
R6353	1-216-668-11			0.50%			R6415	1-216-683-11		22K		1/10W	
1.0000	1 110 000 11	0	J. 110	0.500	1,1011		1.0120	1 110 003 11			0.500	2/ 2011	
R6355	1-218-774-11	METAL CHIP	820K	0.50%	1/10W		R6416	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R6356	1-216-675-11	METAL CHIP	10K	0.50%	1/10W		R6418	1-216-093-00	RES,CHIP	68K	5%	1/10W	
R6357	1-216-057-00	RES, CHIP	2.2K	5%	1/10W		R6419	1-216-073-00		10K		1/10W	
R6358	1-216-047-91			5%	1/10W		R6420	1-216-091-00		56K	5%	1/10W	
R6359	1-216-097-91		100K		1/10W		R6421	1-216-637-11	•	270		1/10W	
		- , -										•	
R6360	1-216-073-00		10K		1/10W		R6422	1-216-639-11		330		1/10W	
R6361	1-216-097-91	RES,CHIP	100K	5%	1/10W		R6423	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W	
R6362	1-216-687-11	METAL CHIP	33K	0.50%	1/10W		R6426	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R6363	1-216-675-11	METAL CHIP	10K	0.50%	1/10W		R6427	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R6364	1-216-057-00	RES, CHIP	2.2K	5%	1/10W		R6428	1-216-107-00	RES,CHIP	270K	5%	1/10W	
R6365	1-216-033-00	RES CHID	220	<b>5</b> %	1/10W		R6429	1-216-065-91	RES CHID	4.7K	5%	1/10W	
R6366	1-216-057-00			5% 5%	1/10W		R6430	1-216-065-91		4.7K		1/10W	
R6367	1-216-679-11			0.50%			R6432	1-216-057-00	•	2.2K		1/10W	
R6368	1-218-756-11			0.50%			R6433	1-216-073-00	•	10K		1/10W	
R6369	1-218-762-11	METAL CHIP	210K	0.50%	T/TOM		R6437	1-249-422-11	CARBON	2.7K	<b>3</b> 8	1/4W	
R6370	1-216-676-11	METAL CHIP	11K	0.50%	1/10W		R6438	1-249-421-11	CARBON	2.2K	5%	1/4W	
R6371	1-215-910-00		68	5%	3W		R6439	1-216-683-11			0.50%		
R6371	1-216-033-00		220	5%	1/10W		R6440	1-216-683-11		22K 22K		1/10W	
R6372	1-216-033-00		18K				R6441	1-216-663-11					
					1/10W							1/10W	
R6374	1-216-689-11	WEIAL CHIP	39K	U.3U%	1/10W		R6442	1-216-039-00	KES, CHIP	390	5%	1/10W	
R6375	1-216-041-00	RES,CHIP	470	5%	1/10W		R6455	1-216-295-91	SHORT	0			

D1	VM	H1	J									
REF. NO.	PART.NO	DESCRIPTION		ı	REMARK	REF. NO.	PART.NO	DESCRIPTION	١		REM	MARK
R6456	1-216-097-91		100K 58	•			< FER	RRITE BEAD >				
R6457	1-216-075-00	RES,CHIP	12K 58	§ 1/1	LOW							
R6458	1-216-089-91	RES,CHIP	47K 58	ł 1/1	LOW	FB5400	1-410-397-21	FERRITE	1.10	H		
86459	1-216-057-00	RES, CHIP	2.2K 58	1/1	LOW	FB5401	1-410-396-41	FERRITE	0.45	UH		
R6460	1-249-393-11		10 59									
				_,			< CO1	TT. >				
6461	1-249-411-11	CARBON	330 58	1/4	lw			- ,				
86462	1-249-406-11		120 5%			L5400	1-410-784-41	TNIDITICTIOD	0.18	ш		
16463	1-216-095-00		82K 58			10400	1 410 704 41	INDUCTOR	0.10	011		
							/ mn	MOTOMOD >				
6464	1-216-079-00	RES, CHIP	18K 5%	1/1	LUW		< TRA	ANSISTOR >				
******	*****	*****	******	*****	*****	Q5400	8-729-119-78	TRANSISTOR 2	SC1740S	-RT		
						Q5401	8-729-119-78					
	A-16//-00/-A	VM BOARD, COM	יסיים, זכו			Q5401 Q5402	8-729-119-78					
	A-1044-034-A	*********										
						Q5403	8-729-119-78					
	4-382-854-11	SCREW (M3X10)	י מוז ס	/ <b>+</b> /		Q5404	8-729-026-41	TRANSISTOR 2	SAYJJAS	-KT		
	4-302-034-11	PCVEM (MOVIO)	, r, SW (	(*)		Q5405	8-729-026-41	TRANSISTOR 2	SA933AS	-RT		
	< C1D	ACITOR >				Q5406	8-729-017-05	TRANSISTOR 2				
	\ \OAT.					Q5407	8-729-017-06					
5400	1-107-883-11	ET.ECT	330MF	20%	16V	20401	0 ,23 017 00		.501135			
5401	1-126-935-11		470MF	20% 20%	16V 16V		✓ DEC	SISTOR >				
							< KES	51510K >				
5402	1-137-370-11		0.01MF	5%	50V	75400	1 040 404 44		4.5	<b>F</b> 0	4 / 4==	
5403	1-126-935-11		470MF	20%	6.3V	R5400	1-249-401-11		47	5%	1/4W	
5405	1-126-933-11	ELECT	100MF	20%	16V	R5401	1-249-421-11		2.2K	5%	1/4W	
						R5402	1-249-413-11	CARBON	470	5%	1/4W	
5406	1-126-935-11	ELECT	470MF	20%	6.3V	R5403	1-249-393-11	CARBON	10	5%	1/4W	F
5407	1-104-989-91	FILM	0.0022MF	5%	200V	R5404	1-249-417-11	CARBON	1K	5%	1/4W	
5408	1-104-989-91		0.0022MF	5%	200V						•	
5409	1-107-649-11		2.2MF	20%	250V	R5405	1-249-425-11	CARRON	4.7K	5%	1/4W	
5410	1-137-364-11		0.001MF	5%	50V	R5406	1-249-425-11		4.7K		1/4W	
,5410	1 13/ 304-11	- 1161	V. VVIII	J-0	501	R5407	1-249-399-11		33	ეგ 5%	1/4W	
E / 1 1	1 127 264 11	PTIM	0 0011477	E o	E 017							
5411	1-137-364-11		0.001MF	5% 20%	50V	R5408	1-247-807-31		100	5% = °	1/4W	
5412	1-126-933-11		100MF	20%	16V	R5409	1-247-815-91	CARBON	220	5%	1/4W	
5413	1-126-933-11		100MF	20%	16V							
5414	1-107-638-11		33MF	20%	160V	R5410	1-249-401-11		47	5%	1/4W	
5415	1-107-363-91	FILM	0.0068MF	10%	200V	R5411	1-249-401-11		47	5%	1/4W	
						R5412	1-249-429-11	CARBON	10K	5%	1/4W	
5416	1-102-106-00	CERAMIC	100PF	10%	50V	R5413	1-249-414-11	CARBON	560	5%	1/4W	F
	1-101-880-00		47PF	5%	50V	R5414	1-249-432-11	CARBON	18K	5%	1/4W	
5430	1-162-117-00		100PF	10%	500V						•	
						R5415	1-260-311-11	CARBON	39	5%	1/2W	
	< CONN	ECTOR >				R5416	1-249-383-11	CARBON	1.5	5%	1/4W	F
						R5417	1-249-432-11		18K		1/4W	
N5402	*1-568-878-51	PIN, CONNECTO	)R 3P			R5418	1-249-414-11		560		1/4W	
N5444	*1-770-723-11			מפ מאגו		R5419	1-249-421-11		2.2K		1/4W	
	1-695-915-11	,		ייייי טו		1/2413	1 513 151-11	OUTFOR	2,21	J 0	1/211	
						DE 400	1_0/0 /01 11	CADDOM	0 017	E 0.	1 / 413	
N5602	*1-564-509-11	PLUG, CONNECT	OK OF			R5420	1-249-421-11		2.2K		1/4W	
	. =					R5421	1-249-383-11		1.5		1/4W	
	< DIO	DR >				R5422	1-249-400-11		39	5%	1/4W	
						R5423	1-215-914-11				3W	F
5400	8-719-991-33	DIODE 1SS1337	!-77			R5425	1-249-419-11	CARBON	1.5K	5%	1/4W	
5401	8-719-510-02	DIODE D1NS4-7	!R									
5402	8-719-991-33	DIODE 1SS1331	:-77			******	******	*****	*****	****	******	*****
5403		DIODE 1SS1337										
5404		DIODE 1881331					A-1646-170-A	H1 BOARD, CO	MPLETE			
							V.V 1/V A	******				
5405	8-719-924-11	DIODE MTZJ-T-	-77-22									
							∠ CNT	PACITOR >				
5406	8-719-924-11	DIODE MT7.17-T-	-11-27				₹ LAF	ACTION >				
5406	8-719-924-11	DIODE MTZJ-T-	11-22				₹ CAI	ACTION >				







REF. NO.	PART.NO	DESCRIPTION	RE	MARK	REF. NO.	PART.NO	DESCRIPTION		REM	ARK	
C7901	1-101-810-00		5%	500V	C8102		CERAMIC CHIP		10%	50V	
C7925	1-137-372-11			50V	C8103	1-104-664-11			20%	16V	
C7926	1-137-372-11	FILM 0.022MF	5%	50V	C8104	1-126-934-11			20%	16V	
					C8105	1-126-933-11			20%	16V	
	< CON	NECTOR >			C8106	1-126-933-11	ELECT	100MF	20%	16V	
CN7103	*1-564-514-11	PLUG, CONNECTOR 11P			C8107	1-126-933-11	RLECT	100MF	20%	16V	
	2 001 021 22				C8108	1-126-933-11			20%	16V	
	< SOC	KET >			C8109		CERAMIC CHIP		10%	25V	
					C8110	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
J7900	1-779-947-11	TERMINAL BLOCK, S			C8111	1-126-933-11			20%	16V	
J7925	1-764-606-11	JACK									
					C8125	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V	
	< COI	L >			C8126		CERAMIC CHIP		10%	16V	
					C8127		CERAMIC CHIP	0.1MF	10%	25V	
L7925	1-414-183-41				C8128	1-104-664-11			20%	16V	
L7926	1-414-183-41	INDUCTOR 10UH			C8129	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V	
	4 DEG	TOMOD >			00120	1 107 000 11	CEDANTO CUITO	0.47145	100	1 (11	
	< RES	ISTOR >			C8130 C8131		CERAMIC CHIP		10% 10%	16V 16V	
R7900	1_525_202_00	TEAD TIMBED /F OMM)			C8131 C8132		CERAMIC CHIP		10% 10%	16V	
R7900 R7901	1-249-417-11	LEAD, JUMPER (5.0MM) CARBON 1K	5% 1/4W		C8132	1-107-623-11		* *	10% 20%	16V	
R7901 R7902	1-249-417-11				C8133	1-104-664-11			20% 20%	16V	
R7902	1-247-895-91		-		C0134	1-104-004-11	EDECI	4/111	200	101	
R7904		LEAD, JUMPER (5.0MM)	)0 1/4 <b>n</b>		C8135	1_16/_505_11	CERAMIC CHIP	2 2MF		16V	
K1304	1 333 303 00	DEAD, COMPER (J. OMM)			C8136		CERAMIC CHIP		5%	50V	
R7905	1-249-417-11	CARBON 1K	5% 1/4W		C8137		CERAMIC CHIP		<b>J</b> 0	16V	
R7906		LEAD, JUMPER (5.0MM)	,, <u>-,</u> -,		C8138		CERAMIC CHIP		10%	16V	
					C8139		CERAMIC CHIP		-0° 10%	16V	
******	******	******	******	*****							
					C8140	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V	
	A-1648-015-A	U BOARD, COMPLETE			C8141	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V	
		*****			C8142	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V	
					C8143	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V	
	< CON	NECTOR >			C8144	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V	
ONT71 01	1 572 200 21	CONNECTOR, BOARD TO	חמו מתונסת		00145	1 107 000 11	CERAMIC CHIP	0.47MB	1 0 0.	16V	
CN7101 CN7977		PLUG, CONNECTOR 4P	SOARD TUP		C8145 C8146	1-107-823-11		* *	10% 5%	50V	
		PLUG, CONNECTOR 4P			C8200	1-103-251-11			วง 20%	16V	
		PLUG, CONNECTOR 3P			C8200	1-163-241-11			20°5 5%	50V	
CN / 930	~1-304-310-11	PLOG, CONNECTOR OF			C8201	1-163-241-11			วจ 10%	25V	
	< JAC	K >			C0202	1 104 004 11	CENAMIC CHIP	V.IMF	100	251	
					C8203	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
J7952	1-537-339-11	TERMINAL BOARD			C8204	1-164-506-11				16V	
					C8205	1-165-319-11	CERAMIC CHIP	0.1MF		50V	
	< COI	L >			C8208	1-164-506-11	CERAMIC CHIP	4.7MF		16V	
					C8209	1-163-251-11	CERAMIC CHIP	100PF .	5%	50V	
L7954	1-402-711-11										
L7956	1-402-711-11	INDUCTOR 1UH			C8210	1-164-004-11			10%	25V	
					C8211	1-163-243-11				50V	
******	******	******	******	*****	C8212		CERAMIC CHIP		5% • • • • •	50V	
	- 4454 000 -				C8213	1-163-087-00			0.25PF		
	A-1651-098-A	J BOARD, COMPLETE (K			C8214	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50∜	
	A_1651_102_A			ZJEKOUUJ	C8215	1-163-243-11	רבטאאזר נינדה	<b>17</b> ₽₽	5%	50V	
	W-1031-103-W	J BOARD, COMPLETE (K	1-23EA0UB)		C8215 C8216	1-163-243-11			วะ 20%	50V 16V	
					C8217		CERAMIC CHIP		20% 10%	25V	
	ע ראם	ACITOR >			C8217	1-104-004-11			10% 20%	50V	
	\ CAP				C8219	1-120-904-11			20° 10%	25V	
C8100	1-107-823-11	CERAMIC CHIP 0.47MF	10%	16V			OHIE		-••		
C8101		CERAMIC CHIP 0.47MF	10%	16V	C8220	1-126-964-11	ELECT	10MF	20%	50V	
	11	VIII VIIII							_ • •		



REF. NO.	PART.NO	DESCRIPTION	l	RE	MARK	REF. NO.	PART.NO	DESCRIPTION		REI	MARK
C8221	1-104-664-11	ELECT	47MF	20%	16V	C8332	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C8222	1-104-664-11	ELECT	47MF	20%	16V	C8343	1-163-185-00	CERAMIC CHIP	150PF	5%	50V
C8223	1-104-664-11	ELECT	47MF	20%	16V					(K	W-29FX60B)
C8224	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C8344	1-163-173-00	CERAMIC CHIP	47PF	5%	50V
C8225	1-104-664-11	ELECT	47MF	20%	16V					(K	W-29FX60B)
C8227	1-163-009-91	CERAMIC CHIP	0.001MF	10%	50V	C8401	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8228	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C8402	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8229	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C8403	1-164-004-11	CERAMIC CHIP		10%	25V
C8230	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C8404	1-164-004-11	CERAMIC CHIP		10%	25V
C8231	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C8405	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8232	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C8406	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8233	1-104-664-11	ELECT	47MF	20%	16V	C8407	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8234	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V	C8408	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C8235	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V	C8409	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8236	1-126-933-11	ELECT	100MF	20%	16V	C8410	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C8237	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V	C8411	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C8238	1-164-505-11	CERAMIC CHIP	2.2MF		16V	C8412	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C8239	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V	C8413	1-115-340-11	CERAMIC CHIP		10%	25V
C8240	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V	C8414	1-163-231-11	CERAMIC CHIP		5%	50V
C8241	1-126-964-11	ELECT	10MF	20%	50V	C8415	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C8242	1-104-664-11	ELECT	47MF	20%	16V	C8416	1-164-004-11	CERAMIC CHIP		10%	25V
C8300	1-115-340-11	CERAMIC CHIP		10%	25V	C8417	1-163-017-00	CERAMIC CHIP		10%	50V
C8301	1-164-004-11	CERAMIC CHIP		10%	25V	C8418	1-164-004-11	CERAMIC CHIP		10%	25V
C8302	1-164-004-11	CERAMIC CHIP		10%	25V	C8419	1-164-004-11	CERAMIC CHIP		10%	25V
C8303	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V	C8420	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8304	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C8421	1-126-933-11	ELECT	100MF	20%	16V
C8305	1-164-004-11	CERAMIC CHIP		10%	25V	C8422	1-126-960-11		1MF	20%	50V
C8306	1-164-004-11	CERAMIC CHIP		10%	25V	C8423	1-126-933-11		100MF	20%	16V
C8308	1-126-933-11	ELECT	100MF	20%	16V	C8425	1-164-004-11	CERAMIC CHIP		10%	25V
C8310	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C8426	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8311	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C8427	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8312	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C8450	1-104-664-11	ELECT	47MF	20%	16V
C8313	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C8451	1-104-664-11	ELECT	47MF	20%	16V
C8314	1-164-004-11			10%	25V	C8455	1-115-340-11			10%	25V
C8315	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C8456	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C8316	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C8550	1-126-933-11		100MF	20%	16V
C8317	1-164-004-11			10%	25V	C8551	1-126-933-11		100MF	20%	16V
C8318	1-126-933-11		100MF	20%	16V	C8552		CERAMIC CHIP		5%	50V
C8319	1-164-004-11			10%	25V	C8553		CERAMIC CHIP		5%	50V
C8320	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C8554	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C8321	1-164-004-11			10%	25V	C8555		CERAMIC CHIP		10%	16V
C8322	1-126-933-11		100MF	20%	16V	C8556	1-126-933-11		100MF	20%	16V
C8323	1-164-182-11			10%	50V	C8557		CERAMIC CHIP		10%	25V
C8324	1-164-004-11			10%	25V	C8558		CERAMIC CHIP		10%	25V
C8325	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V	C8559	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C8326	1-163-231-11			5%	50V	C8560		CERAMIC CHIP		10%	25V
C8327	1-115-340-11			10%	25V	C8561		CERAMIC CHIP		10%	25V
C8328	1-115-340-11			10%	25V	C8562		CERAMIC CHIP		10%	25V
C8329	1-115-340-11			10%	25V	C8563		CERAMIC CHIP		10%	25V
C8330	1-163-231-11	CERAMIC CHIP	15PF	5%	50V	C8564	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C8331	1-126-960-11	ELECT	1MF	20%	50V	C8565	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V



REF. NO.	PART.NO	DESCRIPTION	REN	IARK	REF. NO.	PART.NO	DESCRIPTION	REMARK	
C8566	1-163-263-11	CERAMIC CHIP 330PF	5%	50V	D8132	8-719-158-49	DIODE UDZ-TE-17-12B		
C8567		CERAMIC CHIP 330PF	5%	50V	D8200		DIODE UDZ-TE-17-12B		
C8568		CERAMIC CHIP 0.1MF	10%	25V	D8201		DIODE UDZ-TE-17-12B		
C8569		CERAMIC CHIP 0.1MF	10%	25V	D8202	8-719-158-49	DIODE UDZ-TE-17-12B		
C8570		CERAMIC CHIP 0.1MF	10%	25V	D8203	8-719-158-49	DIODE UDZ-TE-17-12B		
C8601	1-115-340-11	CERAMIC CHIP 0.22MF	10%	25V	D8349	8-719-914-42	DIODE DA204K-T-146		
C8602	1-115-340-11	CERAMIC CHIP 0.22MF	10%	25V	D8432	8-719-914-42	DIODE DA204K-T-146	(KV-29FX60B)	
C8605	1-115-340-11	CERAMIC CHIP 0.22MF	10%	25V	D8450	8-719-158-49	DIODE UDZ-TE-17-12B		
C8606	1-115-340-11	CERAMIC CHIP 0.22MF	10%	25V	D8451	8-719-158-49	DIODE UDZ-TE-17-12B		
C8607	1-104-664-11	ELECT 47MF	20%	16V	D8550	8-719-914-42	DIODE DA204K-T-146		
C8608	1-104-664-11		20%	16V	D8900	8-719-056-85	DIODE UDZ-8.2B		
C8609		CERAMIC CHIP 0.22MF	10%	25V	D8901		DIODE UDZ-8.2B		
C8610		CERAMIC CHIP 0.22MF	10%	25V	D8902	8-719-056-85	DIODE UDZ-8.2B		
C8611		CERAMIC CHIP 0.22MF	10%	25V	D8903		DIODE UDZ-8.2B		
C8612	1-115-340-11	CERAMIC CHIP 0.22MF	10%	25V	D8904	8-719-056-85	DIODE UDZ-8.2B		
C8613	1-104-664-11		20%	16V	D8905		DIODE UDZ-8.2B		
C8614	1-104-664-11		20%	16V	D8906		DIODE UDZ-8.2B		
C8900		CERAMIC CHIP 100PF	5%	50V	D8907		DIODE UDZ-8.2B		
C8901		CERAMIC CHIP 0.0047MF	10%	50V	D8908		DIODE UDZ-8.2B		
C8902	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V	D8909	8-719-056-85	DIODE UDZ-8.2B		
C8903	1-163-251-11	CERAMIC CHIP 100PF	5%	50V	D8910	8-719-056-85	DIODE UDZ-8.2B		
C8904		CERAMIC CHIP 100PF	5%	50V	D8911		DIODE UDZ-8.2B		
C8905		CERAMIC CHIP 100PF	5%	50V	D8912		DIODE UDZ-TE-17-12B		
C8906		CERAMIC CHIP 0.0047MF	10%	50V	D8913		DIODE UDZ-TE-17-12B		
C8907	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V	D8914	8-719-158-49	DIODE UDZ-TE-17-12B		
C8908		CERAMIC CHIP 100PF	5%	50V	D8915		DIODE UDZ-TE-17-12B		
C8909		CERAMIC CHIP 0.0047MF	10%	50V	D8922		DIODE UDZ-TE-17-7.5B		
C8910		CERAMIC CHIP 100PF	5%	50V	D8923	8-719-978-04	DIODE UDZ-TE-17-3.3B		
C8911 C8916	1-163-017-00 1-126-933-11		10% 20%	50V 16V		< FII	LTER >		
20000	1 100 000 11		100			1 000 051 11		_	
C8977		CERAMIC CHIP 0.001MF	10%	50V	FL8200		ENCAPSULATED COMPONEN	T	
C8978	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V	FL8201	1-233-764-21		rm	
	<b>∠</b> ₽11	TER >			FL8203 FL8300		ENCAPSULATED COMPONEN ENCAPSULATED COMPONEN		
	\ F11	HER /			FL8301		ENCAPSULATED COMPONEN		
CF8200	1-409-327-00	TRAP, CERAMIC (6.5MHZ)			F10301	1 230 071 11	ENCAPOUATED COMPONEN	· <b>-</b>	
					FL8400		ENCAPSULATED COMPONEN		
	< CON	INECTOR >			FL8401		ENCAPSULATED COMPONEN		
					FL8550		ENCAPSULATED COMPONEN		
CN8101		CONNECTOR, BOARD TO BOA	RD 50P		FL8551		ENCAPSULATED COMPONEN		
CN8102		PLUG, CONNECTOR 3P			FL8552	1-236-071-11	ENCAPSULATED COMPONEN	ΙΤ	
		SOCKET, PIN 21P							
CN8901	1-695-293-11					< IC	>		
CN8902	1-695-293-11	SUCKET ZIP			T00100	0 750 250 24	TO MD372000012mp		
	. DT0	NDE N			IC8100		IC TDA7309D013TR		
	< DIC	)UE >			IC8101 IC8125	8-759-085-34	IC TDA2822D IC TEA6422DT		
D012E	0_710 150 40	מרו דו משת שתון שתוח							
D8125 D8126		DIODE UDZ-TE-17-12B DIODE UDZ-TE-17-12B			IC8151 IC8200		IC CXA1875AM-T4 IC MSP3410D-OA-B4		
D8126 D8127		DIODE UDZ-TE-17-12B DIODE UDZ-TE-17-12B			108200	0-/39-344-10	TC MOLO4ION-ÓW-R4		
D8127		DIODE UDZ-TE-17-12B			IC8201	0_750_701_24	IC MC3403NS-E20		
D8128 D8129		DIODE UDZ-TE-17-12B			IC8201 IC8202	8-759-701-36			
D0173	0 /15-130-49	PIONE ONE-IE-II-IVD			IC8300		IC TDA9320H-N1-518		
D8130	8-710-158-40	DIODE UDZ-TE-17-12B			IC8400		IC TDA9320H-N1-518		
D8131		DIODE UDZ-TE-17-12B			IC8451		IC MC14052BDR2		
						1 100 000 10			
				4	12				



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION			REMARK
IC8550		IC SDA9288X-B121				SISTOR >			
IC8601	8-759-544-24				\ KE	)1010V \			
IC8601	8-759-544-23			R8100	1-216-025-91	RES, CHIP	100	5%	1/10W
IC8603	8-759-544-22			R8101	1-216-025-91		100	5%	1/10W
IC8604	8-759-544-22			R8102	1-216-295-91	,	0	J 0	1/10#
100004	0 733 344 22	IC HESOCHI		R8103	1-216-089-91		47K	5%	1/10W
	< 900	KET >		R8104	1-216-089-91		47K	5%	1/10W
	\ 500	KEI /		K0104	1-210-009-91	RES, CHIP	4/K	J.	1/10#
J8901	1-774-747-11	JACK BLOCK, PIN		R8105	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
				R8106	1-216-081-00	RES,CHIP	22K	5%	1/10W
	< COI	L >		R8107	1-216-081-00	RES,CHIP	22K	5%	1/10W
				R8108	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
L8150	1-414-757-11	INDUCTOR 100UF	i	R8109	1-249-389-11	CARBON	4.7	5%	1/4W F
L8200	1-412-006-42	INDUCTOR CHIP 10UH							
L8201	1-412-064-11	INDUCTOR CHIP 100UE	i	R8110	1-249-389-11	CARBON	4.7	5%	1/4W F
L8343	1-410-421-21	INDUCTOR 15UH	(KV-29FX60B)	R8111	1-216-033-00	RES, CHIP	220	5%	1/10W
L8550	1-410-428-11		· · · · · · · · · · · · · · · · · · ·	R8112	1-216-033-00		220	5%	1/10W
				R8115	1-216-029-91		150	5%	1/10W
	< TRA	NSISTOR >		R8116	1-216-029-91		150	5%	1/10W
						,			
Q8100		TRANSISTOR 2SC2412K-		R8117	1-216-029-91	•	150	5%	1/10W
Q8101	8-729-620-06			R8118	1-216-029-91	•	150	5%	1/10W
Q8156		TRANSISTOR 2SC2412K-		R8125	1-216-295-91		0		
Q8157		TRANSISTOR 2SC2412K-		R8126	1-216-057-00	•	2.2K		1/10W
Q8200	8-729-620-06	TRANSISTOR 2SC2412K-	-T-146-R	R8127	1-216-113-00	RES,CHIP	470K	5%	1/10W
Q8201	8-729-620-06	TRANSISTOR 2SC2412K-	-T-146-R	R8128	1-216-049-91	RES,CHIP	1K	5%	1/10W
Q8202	8-729-620-06			R8129	1-216-025-91	•	100	5%	1/10W
Q8301		TRANSISTOR IMZ1A-T1(		R8130	1-216-025-91		100	5%	1/10W
Q8303		TRANSISTOR 2SC2412K-		R8131	1-216-049-91		1K	5%	1/10W
Q8303		TRANSISTOR 2SC2412K		R8132	1-216-057-00		2.2K		1/10W
20304	0 723 020 00	INMIDION LUCETIEN	1 110 K	NOISE	1 210 037 00	NEO, CHII	2,21	30	1/1011
Q8305	8-729-620-06	TRANSISTOR 2SC2412K-	-T-146-R	R8133	1-216-113-00	RES,CHIP	470K	5%	1/10W
Q8306	8-729-620-06	TRANSISTOR 2SC2412K-	-T-146-R	R8165	1-216-295-91	SHORT	0		
Q8307	8-729-620-06	TRANSISTOR 2SC2412K-	-T-146-R	R8167	1-216-025-91	RES, CHIP	100	5%	1/10W
Q8308	8-729-038-96	TRANSISTOR IMZ1A-T10	)9	R8168	1-216-025-91		100	5%	1/10W
Q8309		TRANSISTOR IMZ1A-T10		R8174	1-216-065-91		4.7K	5%	1/10W
Q8310	8_720_030_04	TRANSISTOR IMZ1A-T10	10	R8175	1-216-065-91	סווס כיודם	4.7K	<b>5</b> 2	1/10W
Q8310 Q8311		TRANSISTOR 2SC2412K-		R8200	1-216-065-91		4.7K	5% 5%	1/10W 1/10W
Q8311 Q8343		TRANSISTOR 2SC2412K-		R8200 R8201	1-216-049-91	,	1K	Jf	1/ 10M
		TRANSISTOR 2SC2412K-	The state of the s					E o	1 /1 0ម
Q8400				R8202	1-216-021-00	•	68 6 0 v	5% 5%	1/10W
Q8401	8-129-216-22	TRANSISTOR 2SA1037K-	-T-140-K	R8203	1-216-069-00	KES, CHIP	6.8K	<b>5</b> %	1/10W
Q8403		TRANSISTOR 2SC2412K-		R8204	1-216-049-91		1K	5%	1/10W
Q8404		TRANSISTOR 2SC2412K-		R8205	1-216-069-00		6.8K		1/10W
Q8405	8-729-038-96	TRANSISTOR IMZ1A-T10	)9	R8206	1-216-049-91	RES,CHIP	1K	5%	1/10W
Q8406	8-729-038-96	TRANSISTOR IMZ1A-T10	09	R8208	1-216-037-00	RES, CHIP	330	5%	1/10W
Q8407	8-729-038-96	TRANSISTOR IMZ1A-T10	09	R8209	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
Q8425	8-729-620-06	TRANSISTOR 2SC2412K-	-T-146-R	R8210	1-216-025-91	RES.CHTP	100	5%	1/10W
Q8450		TRANSISTOR 2SA1037K-		R8211	1-216-295-91		0	<b>J</b> 0	-, -vn
Q8450 Q8453		TRANSISTOR 2SA1037K	4 4 V IV	R8212	1-216-295-91		0		
Q8455 Q8456		TRANSISTOR 2SC2412K-	-T-1/6-D	R8213	1-216-295-91		0		
Q8459	5-129-210-22	TRANSISTOR 2SA1037K-	-1-140-K	R8214	1-216-295-91	SHUKT	0		
Q8461	8-729-216-22	TRANSISTOR 2SA1037K-	-T-146-R	R8216	1-216-025-91	RES, CHIP	100	5%	1/10W
Q8900	8-729-620-06	TRANSISTOR 2SC2412K-	-T-146-R	R8217	1-216-025-91		100	5%	1/10W
Q8901	8-729-620-06	TRANSISTOR 2SC2412K-	-T-146-R	R8223	1-216-089-91		47K	5%	1/10W
Q8903		TRANSISTOR 2SC2412K-		R8224	1-216-089-91		47K	5%	1/10W
-				R8225	1-216-089-91	•	47K	5%	1/10W
						•			



												لـ
REF. NO.	PART.NO	DESCRIPTION			REMARK	REF. NO.	PART.NO	DESCRIPTION			REMARK	_
R8226	1-216-089-91	RES, CHIP	47K	5%	1/10W	R8340	1-216-049-91	RES, CHIP	1K	5%	1/10W	
R8227	1-216-089-91	RES, CHIP	47K	5%	1/10W	R8343	1-216-045-00	RES, CHIP	680	5%	1/10W	
R8228	1-216-089-91		47K	5%	1/10W						(KV-29FX60B)	
R8229	1-216-295-91		0			R8344	1-216-033-00	RES,CHIP	220	5%	1/10W	
R8230	1-216-081-00	RES,CHIP	22K	5%	1/10W						(KV-29FX60B)	
R8231	1-216-089-91	RES, CHIP	47K	5%	1/10W	R8345	1-216-033-00	RES, CHIP	220	5%	1/10W	
R8232	1-216-089-91	RES, CHIP	47K	5%	1/10W			•			(KV-29FX60B)	
R8233	1-216-089-91	RES, CHIP	47K	5%	1/10W	R8346	1-216-295-91	SHORT	0	(KV-29	FX60A/29FX60D/	
R8234	1-216-089-91	RES, CHIP	47K	5%	1/10W					2	9FX60E/29FX60U)	
R8235	1-216-089-91	RES,CHIP	47K	5%	1/10W	R8347	1-216-025-91	RES, CHIP	100	5%	1/10W	
											(KV-29FX60B)	
R8236	1-216-089-91		47K	5% •	1/10W						(mm. 00mm.00m)	
R8237	1-216-043-91		560	5% 5°	1/10W	R8348	1-216-295-91		0	<b>F</b> 0	(KV-29FX60B)	
R8238	1-216-063-91		3.9K		1/10W	R8349	1-216-121-91		1M	5% 5°	1/10W	
R8239	1-216-069-00		6.8K		1/10W	R8350	1-216-073-00		10K	5%	1/10W	
R8240	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	R8351	1-216-073-00	•	10K	5%	1/10W	
D0040	1 216 021 00	DEC CUID	60	E 0.	1 /1 017	R8400	1-216-041-00	RES, CHIP	470	5%	1/10W	
R8243 R8300	1-216-021-00 1-216-041-00		68 470	5% 5%	1/10W 1/10W	R8402	1-216-295-91	C∏∪DЩ	0			
R8302	1-216-041-00		47	5% 5%	1/10W	R8403	1-216-293-91		470	5%	1/10W	
R8303	1-216-041-00		470	5%	1/10W	R8404	1-216-295-91	•	0	30	1/1011	
R8304	1-216-041-00		470	5%	1/10W	R8405	1-216-025-91		100	5%	1/10W	
110301	1 210 011 00	KED / OHIII	1,0	•	1/ 1011	R8406	1-216-025-91	,	100	5%	1/10W	
R8305	1-216-049-91	RES, CHIP	1K	<b>5</b> %	1/10W						-,	
					(KV-29FX60B)	R8407	1-216-295-91	SHORT	0			
R8307	1-216-049-91	RES, CHIP	1K	5%	1/10W	R8408	1-216-295-91		0			
R8308	1-216-057-00	RES, CHIP	2.2K	5%	1/10W	R8409	1-216-057-00	RES, CHIP	2.2K	5%	1/10W	
R8310	1-216-057-00	RES, CHIP	2.2K	5%	1/10W	R8410	1-216-049-91	RES, CHIP	1K	5%	1/10W	
						R8411	1-216-097-91	RES, CHIP	100K	5%	1/10W	
R8311	1-216-085-00		33K	5%	1/10W							
R8312	1-216-077-00		15K	5%	1/10W	R8412	1-216-041-00		470	5%	1/10W	
R8313	1-216-041-00		470	5%	1/10W	R8413	1-216-041-00		470	5%	1/10W	
R8314	1-216-041-00		470	5%	1/10W	R8414	1-216-041-00		470	5%	1/10W	
R8316	1-216-295-91	SHORT	0			R8415	1-216-041-00	•	470	5%	1/10W	
			400		4 /4 0	R8416	1-216-041-00	RES,CHIP	470	5%	1/10W	
R8317	1-216-025-91	,	100	<b>5</b> %	1/10W	20417	1 016 041 00	DEG 6017D	470	<b>F</b> 0	1 /10**	
R8318	1-216-025-91		100	58	1/10W	R8417	1-216-041-00		470	5% 5°	1/10W	
R8319	1-216-295-91		0			R8418	1-216-041-00 1-216-041-00		470		1/10W	
R8320 R8321	1-216-295-91 1-216-049-91		0 1K	5%	1/10W	R8419 R8420	1-216-041-00	•	470 470	5% 5%	1/10W 1/10W	
ROJZI	1-210-049-91	RES, CHIP	IV	J70	1/10W	R8421	1-216-041-00		1K	ეა 5%	1/10W 1/10W	
R8322	1-216-049-91	RES.CHIP	1K	5%	1/10W	N0421	1 210 049 91	RED, CHII	111	J 0	1/1011	
R8323	1-216-097-91		100K		1/10W	R8422	1-216-017-91	RES.CHIP	47	5%	1/10W	
R8325	1-216-041-00			5%	1/10W	R8423	1-216-017-91	•	47	5%	1/10W	
R8326	1-216-041-00			5%	1/10W	R8424	1-216-025-91		100	5%	1/10W	
R8327	1-216-041-00		470	5%	1/10W	R8425	1-216-077-00	•		5%	1/10W	
		,				R8426	1-216-017-91	•	47	5%	1/10W	
R8328	1-216-041-00	RES, CHIP	470	5%	1/10W							
R8329	1-216-041-00	RES,CHIP	470	5%	1/10W	R8427	1-216-017-91	RES,CHIP	47	5%	1/10W	
R8330	1-216-041-00		470	5%	1/10W	R8428	1-216-017-91		47	5%	1/10W	
R8331	1-216-041-00		470	5%	1/10W	R8429	1-216-041-00	•	470	5%	1/10W	
R8332	1-216-041-00	RES, CHIP	470	5%	1/10W	R8430	1-216-041-00	•	470	5%	1/10W	
-0000	4 044 4		4= 4	F.	4 /4 0	R8431	1-216-017-91	RES, CHIP	47	5%	1/10W	
R8333	1-216-041-00		470	<b>5</b> %	1/10W	-0/00	4 04 4 4 6 4 6 4		4	F.	4 /4 0	
R8334	1-216-017-91		47	<b>5</b> %	1/10W	R8432	1-216-121-91	RES, CHIP	1M	5%	1/10W	
R8335	1-216-017-91		47	5% 5°	1/10W	D0422	1 016 070 00	700 0077	1 000	F0	(KV-29FX60B)	
R8337	1-216-077-00		15K	5% = 0.	1/10W	R8433	1-216-073-00		10K		1/10W	
R8338	1-216-017-91	KES, CHIP	47	5%	1/10W	R8434	1-216-073-00		10K		1/10W	
R8339	1-216-017-91	סדים רעדים	47	5%	1/10W	R8450	1-216-089-91	KES, CHIP	47K	38	1/10W	
VOJJE	T-710-01/-31	MEO, CHIP	71	٥٦	1/10#							



REF. NO.	PART.NO	DESCRIPTION			REMARK	REF. NO.	PART.NO	DESCRIPTION			REMARK
R8451	1-216-073-00	RES,CHIP	10K	5%	1/10W	R8924	1-216-022-00	RES, CHIP	75	5%	1/10W
R8453	1-216-089-91		47K	5%	1/10W	R8925	1-216-022-00		75	5%	1/10W
R8454	1-216-073-00		10K	5%	1/10W	R8926	1-216-033-00		220	5%	1/10W
R8455	1-216-057-00	RES, CHIP	2.2K	5%	1/10W	R8927	1-216-033-00	RES, CHIP	220	5%	1/10W
R8460	1-216-057-00		2.2K		1/10W	R8928	1-216-033-00		220	5%	1/10W
R8462	1-216-073-00	RES,CHIP	10K	5%	1/10W	R8929	1-216-039-00	RES,CHIP	390	5%	1/10W
R8467	1-216-089-91		47K	5%	1/10W	R8930	1-216-049-91		1K	5%	1/10W
R8468	1-216-073-00		10K	5%	1/10W	R8931	1-216-039-00		390	5%	1/10W
R8469	1-216-033-00	RES,CHIP	220	5%	1/10W	R8932	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8470	1-216-022-00	RES, CHIP	75	5%	1/10W	R8933	1-216-089-91	RES,CHIP	47K	5%	1/10W
R8472	1-216-089-91	RES,CHIP	47K	5%	1/10W	R8934	1-216-089-91	RES,CHIP	47K	5%	1/10W
R8473	1-216-073-00		10K	5%	1/10W	R8935	1-216-113-00	RES, CHIP	470K	5%	1/10W
R8474	1-216-033-00	RES,CHIP	220	5%	1/10W	R8936	1-216-113-00	,	470K	5%	1/10W
R8475	1-216-022-00		75	5%	1/10W	R8937	1-216-039-00		390	5%	1/10W
R8550	1-216-295-91	SHORT	0			R8938	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8551	1-216-043-91	RES,CHIP	560	5%	1/10W	R8939	1-216-039-00	RES,CHIP	390	5%	1/10W
R8552	1-216-043-91		560	5%	1/10W	R8940	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R8553	1-216-043-91	RES, CHIP	560	5%	1/10W	R8941	1-216-063-91		3.9K		1/10W
R8554	1-216-037-00		330	5%	1/10W	R8942	1-216-009-00	RES,CHIP	22	5%	1/10W
R8555	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	R8943	1-216-022-00	RES,CHIP	75	5%	1/10W
R8556	1-216-025-91	RES,CHIP	100	5%	1/10W	R8944	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R8557	1-216-025-91		100	5%	1/10W	R8945	1-216-022-00		75	5%	1/10W
R8558	1-216-049-91	RES, CHIP	1K	5%	1/10W	R8946	1-216-033-00	RES,CHIP	220	5%	1/10W
R8559	1-216-049-91	RES,CHIP	1K	5%	1/10W	R8947	1-216-039-00	RES,CHIP	390	5%	1/10W
R8560	1-216-047-91	RES,CHIP	820	5%	1/10W	R8948	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8561	1-216-045-00	RES,CHIP	680	5%	1/10W	R8949	1-216-022-00	RES, CHIP	75	5%	1/10W
R8562	1-216-049-91	RES, CHIP	1K	5%	1/10W	R8950	1-216-089-91		47K	5%	1/10W
R8563	1-216-051-00	RES, CHIP	1.2K	5%	1/10W	R8951	1-216-033-00	RES,CHIP	220	5%	1/10W
R8564	1-216-049-91		1K	5%	1/10W	R8952	1-216-113-00		470K		1/10W
R8565	1-216-049-91	RES,CHIP	1K	5%	1/10W	R8953	1-216-039-00	RES,CHIP	390	5%	1/10W
R8566	1-216-047-91		820	5%	1/10W	R8954	1-216-057-00		2.2K		1/10W
R8900	1-216-039-00		390	5%	1/10W	R8955	1-216-039-00	RES, CHIP	390		1/10W
R8901	1-216-049-91	,	1K	5%	1/10W	R8956	1-216-049-91		1K	5%	1/10W
R8902	1-216-039-00		390		1/10W	R8957	1-216-049-91		1K	5%	1/10W
R8903	1-216-089-91	RES,CHIP	47K	5%	1/10W	R8958	1-216-089-91	RES,CHIP	47K	5%	1/10W
R8904	1-216-089-91		47K	5%	1/10W	R8959	1-216-022-00	RES, CHIP	75	5%	1/10W
R8905	1-216-113-00		470K	5%	1/10W	R8960	1-216-033-00		220	5%	1/10W
R8906	1-216-039-00	,	390		1/10W	R8961	1-216-022-00		75	5%	1/10W
R8907	1-216-057-00	,	2.2K		1/10W	R8963	1-216-113-00		470K		1/10W
R8908	1-216-039-00	RES,CHIP	390	5%	1/10W	R8964	1-216-039-00	RES,CHIP	390	5%	1/10W
R8909	1-216-049-91	RES,CHIP	1K	5%	1/10W	R8965	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8911	1-216-063-91		3.9K	5%	1/10W	R8968	1-216-022-00		75	5%	1/10W
R8913	1-216-022-00		75	5%	1/10W	R8969	1-216-033-00	RES, CHIP	220	5%	1/10W
R8914	1-216-071-00	RES, CHIP	8.2K	5%	1/10W	R8977	1-216-037-00	RES,CHIP	330	5%	1/10W
R8915	1-216-022-91	RES,CHIP	75	5%	1/10W	R8978	1-216-037-00	RES,CHIP	330	5%	1/10W
R8916	1-216-033-00	RES,CHIP	220	5%	1/10W	R8979	1-216-045-00	RES,CHIP	680	5%	1/10W
R8917	1-216-033-00			5%	1/10W	R8980	1-216-045-00		680		1/10W
R8918	1-216-113-00		470K		1/10W	R8981	1-216-085-00		33K		1/10W
R8919	1-216-057-00		2.2K		1/10W	R8982	1-216-057-00		2.2K	5%	1/10W
R8922	1-216-022-00		75	5%	1/10W	R8983	1-216-077-00		15K		1/10W
R8923	1-216-022-00	RES,CHIP	75	5%	1/10W	R8990	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
					14	l 46					

The components identified by shading and marked  $\triangle$  are critical for safety Replace only with the part number specified.



REF. NO.	PART.NO	DESCRIPTIO	N		REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK			
R8991	1-216-097-91				1/10W		< MI	SCELLANEOUS >				
R8992	1-216-057-00		2.2K									
R8993	1-216-057-00	RES,CHIP	2.2K	5%	1/10W			COIL, DEMAGNETIC				
								MAGNET, DISK; 10MM	DISK; 15MM FLYBACK (NX-4512/U2B4)  (RT200)  WER) CONNECTOR) 160B/29FX60D/29FX60D  IK PLUG) (KV-29FX60D  29FX60B) 29FX60U)  H060X) 19RSC-M)  CAGE  ************  I (KV-29FX60A) (ITALIAN) I (KV-29FX60B) 1/ITALIAN/DUTCH) I (KV-29FX60D) //GERMAN/TURKISH) II (KV-29FX60E) FINNISH/DANISH/ WEGIAN/SWEDISH) II (KV-29FX60U) (ENGLISH)			
	< CRY	STAL >						MAGNET, ROTATABLE I				
							△ 1-453-272-11	TRANSFORMER ASSY, I				
X8200	1-781-148-21	,							(NX-4512/U2B4)			
X8300	1-567-504-11	•					4 4 44					
X8301	1-567-505-11	•						SPEAKER (4.8X20CM)				
X8400	1-567-504-11							SPEAKER (13CM)	(D#000)			
X8401	1-567-505-11	OSCILLATOR,	CRYSTAL	1				COIL, NA ROTATION		_		
X8550	1_740_661 21	מסחונקקדען	ידאגם.					SWITCH, PUSH (AC PO CORD, POWER (WITH (				
10330	1-760-551-21	VIDRATUK, C	FKAMIC				ZZ 1-3/4-002-01			)E.)		
*****	******	*****	******	****	*****	***		(111 232110011/23211	2021130D   2021100	-1		
								CORD, POWER (WITH U	UK PLUG) (KV-29FX6	)U)		
							1-693-338-11	TUNER/VIF (AEP)				
								•		0E)		
								TUNER/VIF (FR) (KV-				
							1-693-339-11	TUNER/VIF (UK) (KV-	-29FX60U)			
							8-735-053-05	PICTURE TUBE (M68LN	1HU6UX)			
								DEFLECTION YOKE (Y2				
								NECK ASSY, NA299-M	,			
								CAP ASSY, HIGH VOLT	PAGE			
						***************						
							4-204-548-41	MANUAL, INSTRUCTION	•			
							4-204-548-51	MANUAL, INSTRUCTION (FRENCH/GERMAN	, ,			
							4-204-548-11	MANUAL, INSTRUCTION (GREEK/ENGLISH	N (KV-29FX60D) /GERMAN/TURKISH)			
							4-204-548-71	MANUAL, INSTRUCTION				
							4-204-548-81	•	N (KV-29FX60E) FINNISH/DANISH/ WEGIAN/SWEDISH)			
							4-204-548-61	MANUAL, INSTRUCTION				
							*4-042-476-01	BAG, PROTECTION				
								INDIVIDUAL CARTON				
								CUSHION (UPPER) (AS	SSY)			
								CUSHION (LOWER) (AS				
								OTE COMMANDER				
							1-418-047-11	REMOTE COMMANDER (F	RM891)			

## **SERVICE MANUAL**

### AE-5 CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-29FX60/	RM-891	Italian	SCC-Q12A-A	KV-29FX60	<b>E</b> RM-891	Spanish	SCC-Q14A-A
KV-29FX601	<b>3</b> RM-891	French	SCC-Q13A-A	KV-29FX60	<b>U</b> RM-891	UK	SCC-Q15A-A
KV-29FX60	RM-891	AFP	SCC-011A-A				

#### **CORRECTION - 1**

SUBJECT: D BOARD PWB ERROR

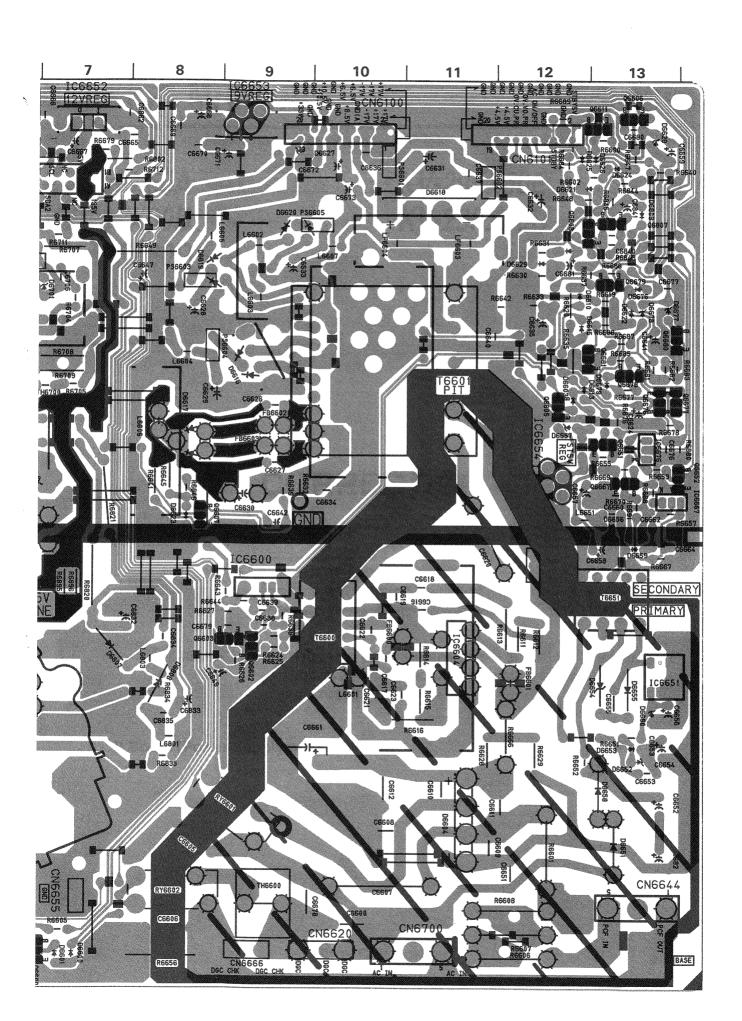
File this correction with the service manual

INTRODUCTION:

Due to a printing error the D Board PWB layout is incorrect. Refer to the layout indicated in this correction bulletin.

D Board [Power Supply and Deflection]......See page 106

Sony Corporation Sony UK Service Promotions Dept. English 99AP7170-91 Printed in U.K. © 1999.1



# **SERVICE MANUAL**

## AE-5 CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-29FC60	<b>A</b> RM-891	Italian	SCC-Q12C-A	KV-29FC	<b>60E</b> RM-891	Spanish	SCC-Q14C-A
KV-29FC60	B RM-891	French	SCC-Q13C-A	KV-29FC6	50K RM-891	OIRT	SCC-Q16D-A
KV-29FC60	<b>D</b> RM-891	AEP	3CC-Q11C-A	KV-29FC6	<b>60R</b> RM-891	OIRT	SCC-Q16C-A

#### **CORRECTION - 1**

SUBJECT: D BOARD PWB ERROR

File this correction with the service manual

INTRODUCTION: Due to a printing error the D Board PWB layout is incorrect. Refer to the layout indicated in this correction bulletin.

D Board [Power Supply and Deflection].....See page 106

Sony Corporation Sony UK Service Promotions Dept.

